NSDVE

National Skill Development and Vocational Education

NSDVE COURSES IN FIRE AND SAFETY EDUCATION

Diploma · Advanced Diploma · Post Diploma · PG Diploma & Certificate Programs

OFFICIAL ACADEMIC COURSE HANDBOOK

A Comprehensive Guide to Professional Fire, Industrial, Occupational Health & Environmental Safety Programs

Preparing Tomorrow's Safety Professionals Today

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1. Introduction

Fire and safety management is one of the most critical and rapidly expanding professional disciplines in the modern industrial landscape. As economies grow and industrial activities intensify, the demand for qualified fire and safety professionals continues to rise dramatically across sectors such as oil and gas, construction, manufacturing, mining, petrochemicals, and offshore operations. Governments, regulatory bodies, and multinational organisations increasingly mandate rigorous safety standards and employ dedicated safety specialists to ensure compliance, protect human life, and safeguard assets.

In this context, NSDVE — the National Skill Development and Vocational Education institution — stands as a premier provider of fire and safety education. Offering a diverse portfolio of programmes ranging from basic Certificate courses to Post Graduate Diplomas, NSDVE has established itself as a trusted centre for skill-based, industry-aligned, and practically oriented safety education. This handbook serves as the definitive reference guide for all NSDVE Fire and Safety programmes, providing detailed information on course structures, subject modules, practical training components, career pathways, and admission requirements.

2. About NSDVE

The National Skill Development and Vocational Education (NSDVE) is a government-aligned vocational training institution established with the mission of bridging the critical skills gap in fire, industrial, environmental, and occupational safety. NSDVE operates with a commitment to delivering world-class, industry-relevant education that empowers students with the technical competence and practical expertise required to thrive in hazardous work environments and safety-sensitive industries.

NSDVE's academic philosophy is rooted in the belief that safety education must be experiential as well as theoretical. Every programme offered by NSDVE is carefully designed to incorporate both rigorous academic coursework and extensive hands-on training, ensuring that graduates are not only knowledgeable but also operationally capable. The institution's curriculum is periodically reviewed and updated in alignment with international safety standards including OSHA, ISO 45001, NEBOSH, and IOSH frameworks, ensuring that NSDVE graduates are globally competitive and immediately employable.

With a faculty of seasoned safety professionals, ex-industry experts, and certified trainers, NSDVE delivers its programmes through modern classrooms, dedicated safety laboratories, fire drill grounds, mock emergency response facilities, and industrial training sites. The institution maintains active partnerships with industries across the oil and gas, construction, manufacturing, and government sectors, facilitating live industrial exposure for students through structured site visits, project work, and internship pathways.

NSDVE's course portfolio spans an expansive range of specialisations including Fire Engineering, Industrial Safety Management, Occupational Health & Hygiene, Construction Safety, Environmental Safety, Offshore and Oil & Gas Safety, Food Safety, Electrical Safety, Mining Safety, and Scaffolding Safety, among others. The institution offers these programmes at multiple academic levels — from short-duration Certificate courses to advanced Post Graduate Diplomas — making safety education accessible to students at every stage of their professional journey.

3. Vision & Mission

Vision

To be the nation's foremost vocational institution for fire and safety education, recognised for producing globally competent, ethically grounded, and practically skilled safety professionals who contribute meaningfully to the preservation of human life, industrial assets, and environmental sustainability.

Mission

- To provide high-quality, skill-based fire and safety education that meets national and international industrial standards.
- To develop technically proficient and practically competent safety professionals equipped to manage risks in complex industrial environments.
- To foster a culture of proactive safety, hazard awareness, and continuous professional development among students and graduates.
- To maintain curriculum relevance through regular updates aligned with evolving safety legislation, international standards, and industry best practices.
- To build strong industry–academia partnerships that enable students to gain real-world exposure and employment-ready skills.
- To contribute to the national skill development mission by expanding access to quality vocational safety education across all regions.

4. Why Choose NSDVE

Experienced and Qualified Faculty: NSDVE employs a team of highly experienced safety professionals, fire engineers, industrial hygienists, and certified trainers with decades of combined field experience across diverse industrial sectors.

Industry-Aligned Curriculum: Every course at NSDVE is developed in close consultation with industry practitioners and aligned with established safety frameworks including OSHA, ISO 45001, NEBOSH, and national statutory requirements.

State-of-the-Art Safety Laboratories: NSDVE's purpose-built safety labs provide students with realistic hands-on training environments for fire fighting, first aid, PPE use, confined space entry, scaffolding, and industrial hazard simulation.

Practical-First Training Methodology: More than 40% of each programme is devoted to practical training, ensuring that students develop genuine operational competence alongside theoretical knowledge.

Mock Emergency Exercises and Fire Drills: Regular large-scale mock emergency drills and fire suppression exercises are conducted to prepare students for real-world emergency scenarios and incident command situations.

Industrial Case Study Analysis: Students analyse real industrial accidents, near-misses, and safety failures to develop critical reasoning, root-cause analysis, and corrective action planning skills.

Industrial Site Visit Exposure: Structured visits to refineries, chemical plants, construction sites, and offshore facilities provide students with direct exposure to industrial safety practices and challenges.

Internationally Recognised Certification: NSDVE certifications are designed for recognition by industry employers, government agencies, and professional safety bodies at national and international levels.

Career Placement Support: NSDVE maintains an active placement and career guidance cell to assist students in securing employment with industry partners upon successful completion of their programmes.

Affordable and Accessible Education: NSDVE is committed to making quality fire and safety education accessible through flexible programme durations, multiple entry levels, and competitively structured fee frameworks.

5. Training Methodology

NSDVE employs a multi-modal, competency-based training methodology that integrates classroom instruction, laboratory practice, industrial simulation, and real-world project work. This blended approach ensures that students develop both the intellectual foundations and the practical proficiencies essential for effective performance in the safety profession.

Classroom Instruction: Structured lectures by subject-matter experts covering theoretical principles, legislation, safety standards, risk management frameworks, and technical fire engineering concepts.

Practical Workshops: Skill-building workshops focused on equipment handling, hazard identification techniques, safety documentation, incident reporting, and emergency planning exercises.

Fire Drills and Suppression Exercises: Regular fire drills, foam application exercises, dry powder and CO_2 extinguisher training, and hydrant system demonstrations conducted on NSDVE's dedicated fire training ground.

Emergency Response Simulations: Full-scale mock emergency scenarios including industrial fire outbreaks, chemical spills, confined space rescues, and mass casualty incidents, conducted to test students' emergency management skills.

Hazard Analysis and Risk Assessment Exercises: Structured exercises guiding students through job hazard analysis (JHA), HAZOP studies, fault tree analysis, and bow-tie risk assessment methodologies.

PPE Demonstrations and Competency Assessment: Hands-on sessions on the selection, inspection, fitting, and maintenance of personal protective equipment including respiratory protection, fall arrest systems, and chemical protective clothing.

Industrial Training and Site Visits: Scheduled visits to operational industrial sites providing students with direct observation of safety management systems, permit-to-work procedures, and incident investigation protocols.

Project Work and Case Studies: Independent research projects and group case study analyses that develop students' ability to apply safety principles to complex, real-world industrial scenarios.

Assessments and Internal Evaluations: Regular written tests, practical assessments, viva voce examinations, and project evaluations that comprehensively measure student learning outcomes.

6. Safety Labs & Practical Training Facilities

NSDVE maintains a comprehensive range of practical training facilities specifically designed to replicate real industrial and emergency scenarios. These facilities ensure that students graduate with verified hands-on competencies in all major areas of fire and safety practice.

Fire Safety Laboratory: Equipped with fire extinguishers of all classes, hydrant systems, fire blankets, sprinkler system models, and suppression foam apparatus for practical fire fighting training.

Industrial Safety Simulation Centre: Features mock industrial machinery guards, electrical isolation panels, confined space entry props, lockout/tagout demonstration boards, and scaffolding structures for hazard recognition training.

Rescue Training Facility: Dedicated area for rope rescue techniques, casualty extraction, vertical rescue systems, and stretcher-based evacuation drills.

First Aid and Medical Emergency Lab: Stocked with CPR manikins, AED training devices, bandaging and wound care materials, airway management equipment, and spinal board immobilisation kits.

Construction Safety Simulation Zone: Features scaffolding erection and inspection props, excavation models, fall protection systems, and road work safety zone layouts.

Environmental Monitoring Station: Equipped with air quality monitoring instruments, noise dosimeters, gas detectors, and water quality test kits used in occupational hygiene and environmental safety training.

Oil & Gas Safety Simulation Area: Includes process piping models, valve isolation demonstrations, blowout preventer replicas, and offshore emergency response scenarios.

Forklift and Material Handling Training Ground: Dedicated outdoor training ground for forklift operation, load stability assessment, and safe material handling practices.

Section A: Advanced Diploma Programs

Advanced Diploma in Fire & Industrial Safety Management

Course Overview

The Advanced Diploma in Fire & Industrial Safety Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS300-01	Fire Engineering Science	100
FSS300-02	Fire Safety in Buildings	100
FSS300-03	Industrial Hygiene & Occupational Health	100
FSS300-04	Industrial Safety	100
FSS300-05	Construction Safety	100
FSS300-06	Health, Safety & Environmental Legislation	100
FSS300-07	Project	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Advanced Diploma in Industrial Safety (Engineering Focus)

Course Overview

The Advanced Diploma in Industrial Safety (Engineering Focus) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS200-01	Industrial Safety Management	100
FSS200-02	Safety in Engineering Industries	100
FSS200-03	Construction Safety	100
FSS200-04	Chemical and Process Safety Management	100
FSS200-05	Safety, Health and Environmental Legislation	100
FSS200-06	Industrial Hygiene and Occupational Health	100
FSS200-07	Practical	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.

- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Advanced Diploma in Industrial Safety (Comprehensive)

Course Overview

The Advanced Diploma in Industrial Safety (Comprehensive) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets

international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS200-01	Industrial Safety Management	100
FSS200-02	Safety in Engineering Industries	100
FSS200-03	Construction Safety	100
FSS200-04	Chemical and Process Safety Management	100
FSS200-05	Environment Management	100
FSS200-06	Quality Control in Occupational Safety & Health	100
FSS200-07	Safety, Health and Environmental Legislation	100
FSS200-08	Industrial Hygiene and Occupational Health	100
FSS200-09	Project	100

Total Marks: 900

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.

- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Advanced Diploma in Industrial Safety (Hazard & Risk)

Course Overview

The Advanced Diploma in Industrial Safety (Hazard & Risk) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety

principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS200-01	Industrial Safety Management	100
FSS200-02	Hazard Identification & Risk Control	100
FSS200-03	Occupational Health & Hygiene	100
FSS200-04	Fire Safety & Emergency Response	100
FSS200-05	Safety Legislation & Compliance	100
FSS200-06	Practical	100

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Advanced Diploma in Industrial Safety (Offshore & Oil/Gas)

Course Overview

The Advanced Diploma in Industrial Safety (Offshore & Oil/Gas) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.

- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS200-01	Industrial Safety Management	100
FSS200-02	Offshore, Oil & Gas Safety	100
FSS200-03	Construction Safety	100
FSS200-04	Petrochemical and Process Safety Management	100
FSS200-05	Safety, Health and Environmental Legislation	100
FSS200-06	Industrial Hygiene and Occupational Health	100
FSS200-07	Practical – I	100
FSS200-08	Practical – II	100

Total Marks: 800

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer

- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Advanced Diploma in Occupational Safety, Health & Environmental Management

Course Overview

The Advanced Diploma in Occupational Safety, Health & Environmental Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.

- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS400-01	Industrial Safety Management	100
FSS400-02	Construction Safety	100
FSS400-03	Chemical and Process Safety Management	100
FSS400-04	Safety, Health & Environmental Management	100
FSS400-05	Industrial Hygiene & Occupational Health	100
FSS400-06	Applied Ergonomics	100
FSS400-07	Project	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector

- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Advanced Diploma in Offshore, Rig, Oil & Gas Safety Engineering

Course Overview

The Advanced Diploma in Offshore, Rig, Oil & Gas Safety Engineering is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.

- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS035-01	Offshore & Rig Basics	100
FSS035-02	Advanced HSE Management	100
FSS035-03	Process Safety & Risk	100
FSS035-04	Fire & Explosion Response	100
FSS035-05	Petrochemical Safety Systems	100
FSS035-06	Rig Integrity & Safety	100
FSS035-07	Global Standards & Compliance	100
FSS035-08	Practical	100

Total Marks: 800

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor

- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Advanced Diploma in Fire & Industrial Safety (Core)

Course Overview

The NSDVE Advanced Diploma in Fire & Industrial Safety (Core) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS500-01	Safety Management	100
FSS500-02	Environment Pollution	100
FSS500-03	Safety in Petrochemical Industry	100
FSS500-04	Fire Prevention & Administration	100
FSS500-05	Health, Safety & Environment Legislation	100
FSS500-06	Safety, Law & Building & Construction Workers Act	100
FSS500-07	Advanced Safety Management & Quality Control	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Advanced Diploma in Fire & Industrial Safety (Engineering)

Course Overview

The NSDVE Advanced Diploma in Fire & Industrial Safety (Engineering) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS802-01	Fire Engineering Science & Administration	100
FSS802-02	Industrial Safety Management	100
FSS802-03	Construction Safety & Building and Construction Workers Act	100
FSS802-04	Health, Safety & Environment Legislation	100
FSS802-05	Industrial Hygiene & Occupational Health	100
FSS802-06	Safety in Chemical & Petrochemical Industry	100
FSS802-07	Practical	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants

- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Advanced Diploma in Industrial Safety (Construction & Environmental)

Course Overview

The NSDVE Advanced Diploma in Industrial Safety (Construction & Environmental) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS502-01	Construction Safety	100

Subject Code	Subject Name	Marks
FSS502-02	Environmental Management & Environmental Legislation	100
FSS502-03	Industrial Hygiene and Occupational Health	100
FSS502-04	Chemical and Process Safety Management	100
FSS502-05	Industrial Safety Management	100
FSS502-06	Quality Control in Occupational Health, Safety & Environment	100
FSS502-07	Practical & Drill	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies

- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Advanced Diploma in Occupational Safety, Health & Environmental Management (International)

Course Overview

The NSDVE Advanced Diploma in Occupational Safety, Health & Environmental Management (International) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS014-01	International Management for Health & Safety	100
FSS014-02	International Workplace Safety	100

Subject Code	Subject Name	Marks
FSS014-03	Environmental Management	100
FSS014-04	Practical	300

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities

- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Section B: Diploma Programs

Diploma in Fire & Safety (Fundamentals)

Course Overview

The Diploma in Fire & Safety (Fundamentals) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS200-01	Fire and Safety (Theory)	100
FSS200-02	Fire and Safety (Practical)	100

Total Marks: 200

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.

- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Diploma in Fire and Industrial Safety

Course Overview

The Diploma in Fire and Industrial Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial

risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS400-01	Industrial Safety Management	100
FSS400-02	Safety in Engineering Industries	100
FSS400-03	Construction Safety	100
FSS400-04	Chemical and Process Safety Management	100
FSS400-05	Safety, Health and Environmental Legislation	100
FSS400-06	Industrial Hygiene and Occupational Health	100
FSS400-07	Practical	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.

- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Diploma in Fire & Safety (Science Foundation)

Course Overview

The Diploma in Fire & Safety (Science Foundation) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.

- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS300-01	Physics and Chemistry Fundamentals	100
FSS300-02	Basic Safety Engineering	100
FSS300-03	Occupational Health and Safety	100
FSS300-04	Fire Prevention and Control	100
FSS300-05	Industrial Safety	100
FSS300-06	Practical	500

Total Marks: 1000

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor

- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Diploma in Fire & Safety (Buildings & Legislation)

Course Overview

The Diploma in Fire & Safety (Buildings & Legislation) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.

- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS300-01	Fire Engineering Science	100
FSS300-02	Fire Safety in Buildings	100
FSS300-03	Industrial Hygiene & Occupational Health	100
FSS300-04	Industrial Safety	100
FSS300-05	Construction Safety	100
FSS300-06	Health, Safety & Environmental Legislation	100
FSS300-07	Practical	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor

- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Diploma in Fire Engineering & Industrial Safety Management

Course Overview

The Diploma in Fire Engineering & Industrial Safety Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS600-01	Fundamentals of Fire Engineering Science & Fire Control Technology	100
FSS600-02	Fire Administration & Industrial Safety Management	100
FSS600-03	Industrial Accident Loss & Quality Control Safety Management	100
FSS600-04	Industrial Legal Provision, Health & Safety Management	100
FSS600-05	Construction Safety Management	100
FSS600-06	Communicative English & Computer Fundamentals	100
FSS600-07	Practical	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Diploma in Fire Fighter

Course Overview

The Diploma in Fire Fighter is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS55-01	Emergency Vehicle Operation	100
FSS55-02	First Aid and Disaster Management	100
FSS55-03	Rescue Operations	100
FSS55-04	Fire Suppression Equipment	100
FSS55-05	Incident Response and Reporting	100
FSS55-06	Fire & Safety Philosophy	100
FSS55-07	Protection of Environment	100
FSS55-08	Practical	200

Total Marks: 900

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies

- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Diploma in Fire Safety and Security Management

Course Overview

The Diploma in Fire Safety and Security Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS032-01	Safety, Fire & Industrial Hazards	100
FSS032-02	Safety Operational Skills	100

Subject Code	Subject Name	Marks
FSS032-03	Regulatory & Management Skills	100
FSS032-04	Disaster Risk Management	100
FSS032-05	Communication and Equipment Handling	100
FSS032-06	Project Work	100

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries

- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Diploma in Fire Sub-Officer

Course Overview

The Diploma in Fire Sub-Officer is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS700-01	Industrial Safety Management	100
FSS700-02	Fire Engineering	100
FSS700-03	Fire Safety	100
FSS700-04	Chemical and Process Safety Management	100
FSS700-05	Industrial Hygiene and Occupational Health	100
FSS700-06	Fire Administrative Training	100

Subject Code	Subject Name	Marks
FSS700-07	Project	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities

- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Diploma in Industrial Safety & Fire Management

Course Overview

The Diploma in Industrial Safety & Fire Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS300-01	Industrial Safety Management	100
FSS300-02	Environment & Industrial Safety	100
FSS300-03	Safety Philosophy	100
FSS300-04	Safety Engineering – I	100
FSS300-05	Fire and Safety Management	100
FSS300-06	Industrial Safety Acts & Law	100
FSS300-07	Industrial Hygiene	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Diploma in Mining and Industrial Safety Management

Course Overview

The Diploma in Mining and Industrial Safety Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS602-01	Introduction to Mining Safety Study	100
FSS602-02	Mining Laws & Regulations	100
FSS602-03	Occupational Health and Environmental Safety	100
FSS602-04	Industrial Safety	100
FSS602-05	Mining Safety and Disaster Management	100
FSS602-06	Practical	100

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.

- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Health, Environment and Safety Engineering

Course Overview

The NSDVE Diploma in Health, Environment and Safety Engineering is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety

principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS030-01	Industrial Safety	100
FSS030-02	Construction Safety	100
FSS030-03	Occupational Health & Environment Safety	100
FSS030-04	Fire Engineering	100
FSS030-05	Practical – I	100
FSS030-06	Practical – II	100

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Health, Safety & Environment Management

Course Overview

The NSDVE Diploma in Health, Safety & Environment Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.

- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS019-01	Principles of Safety Management	100
FSS019-02	Occupational Health and Hygiene	100
FSS019-03	General Workplace Hazards and Mitigation	100
FSS019-04	Environmental Management Systems	100
FSS019-05	Projects and Assignments	100
FSS019-06	Practical	500

Total Marks: 1000

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor

- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Industrial Safety and Environmental Management

Course Overview

The NSDVE Diploma in Industrial Safety and Environmental Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.

- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS031-01	Industrial Safety Management	100
FSS031-02	Industrial Hygiene and Occupational Health	100
FSS031-03	Quality Control in Occupational Safety & Health	100
FSS031-04	Environmental Management	100
FSS031-05	Safety, Health & Environment Legislation	100
FSS031-06	Project	100

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor

- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Industrial Environment Safety

Course Overview

The NSDVE Diploma in Industrial Environment Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS016-01	Communicative English and Computer Fundamentals	100
FSS016-02	Accident Investigation	100
FSS016-03	Fire Safety Engineering	100
FSS016-04	Organisational Behaviour & Elements of Management	100
FSS016-05	Environmental Management	100
FSS016-06	Hazards & Risk Management	100
FSS016-07	Practical	600

Total Marks: 1200

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies

- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Construction Safety

Course Overview

The NSDVE Diploma in Construction Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS008-01	Communicative English and Computer Fundamentals	100
FSS008-02	Accident Prevention and Risk Management	100

Subject Code	Subject Name	Marks
FSS008-03	Fire Hydraulics and Fire Loss Control	100
FSS008-04	Safety in Electrical Systems	100
FSS008-05	Construction Safety	100
FSS008-06	Practical	500

Total Marks: 1000

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries

- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Construction Safety Management

Course Overview

The NSDVE Diploma in Construction Safety Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS023-01	Communicative English and Computer Fundamentals	100
FSS023-02	Principles of Safety Management	100
FSS023-03	Occupational Health & Hygiene	100
FSS023-04	Workplace & Equipment Safety	100
FSS023-05	Environmental Impact & Management	100
FSS023-06	Projects & Assignments	100

Subject Code	Subject Name	Marks
FSS023-07	Practical	600

Total Marks: 1200

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities

- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Electrical Safety

Course Overview

The NSDVE Diploma in Electrical Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS005-01	Communicative English and Computer Fundamentals	100
FSS005-02	Accident Prevention and Risk Management	100
FSS005-03	Safety in Electrical Systems	100
FSS005-04	Fire Safety and Prevention Techniques	100
FSS005-05	Occupational Health and Safety	100
FSS005-06	Practical	500

Total Marks: 1000

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Environmental Safety

Course Overview

The NSDVE Diploma in Environmental Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS009-01	Communicative English and Computer Fundamentals	100
FSS009-02	Fire Management	100
FSS009-03	Basic Safety Engineering	100
FSS009-04	Fire Prevention and Control	100
FSS009-05	Environmental Safety	100
FSS009-06	Practical	500

Total Marks: 1000

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.

- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Fire & Safety Engineering

Course Overview

The NSDVE Diploma in Fire & Safety Engineering is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial

risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS025-01	Communicative English and Computer Fundamentals	100
FSS025-02	Principles of Safety Management	100
FSS025-03	Safety in Building Construction	100
FSS025-04	Occupational Health and Environmental Safety	100
FSS025-05	Fire Control Technology	100
FSS025-06	Disaster Management	100
FSS025-07	Practical	600

Total Marks: 1200

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.

- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Fire & Safety Engineering Techniques

Course Overview

The NSDVE Diploma in Fire & Safety Engineering Techniques is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.

- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS010-01	Communicative English and Computer Fundamentals	100
FSS010-02	Fire Control Technology	100
FSS010-03	Fire Fighting Appliances	100
FSS010-04	Principles of Safety Management	100
FSS010-05	Safety in Building Construction	100
FSS010-06	Basic Electrical Safety	100
FSS010-07	Practical	600

Total Marks: 1200

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager

- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Fire & Safety Methods

Course Overview

The NSDVE Diploma in Fire & Safety Methods is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.

- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS001-01	Communicative English and Computer Fundamentals	100
FSS001-02	Physics and Chemistry – Fundamentals	100
FSS001-03	Basic Safety Engineering	100
FSS001-04	Occupational Health and Safety	100
FSS001-05	Fire Prevention and Control	100
FSS001-06	Practical	500

Total Marks: 1000

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor

- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Fire and Industrial Safety Management

Course Overview

The NSDVE Diploma in Fire and Industrial Safety Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS033-01	Fire Safety in Buildings	100
FSS033-02	Fire Engineering Science	100
FSS033-03	Industrial Hygiene & Occupational Health	100
FSS033-04	Health, Safety & Environmental Legislation	100
FSS033-05	Industrial Safety Management	100
FSS033-06	Construction Safety	100
FSS033-07	Practical	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies

- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Diploma in Food Safety

Course Overview

The NSDVE Diploma in Food Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS002-01	Communicative English and Computer Fundamentals	100
FSS002-02	Physics and Chemistry – Fundamentals	100

Subject Code	Subject Name	Marks
FSS002-03	Basic Safety Engineering	100
FSS002-04	Occupational Health and Safety	100
FSS002-05	Food Safety	100
FSS002-06	Practical	500

Total Marks: 1000

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries

- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Section C: Post Diploma Programs

NSDVE Post Diploma in Industrial Safety (Standard)

Course Overview

The NSDVE Post Diploma in Industrial Safety (Standard) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS035-01	Industrial Safety Management	100
FSS035-02	Safety in Engineering Industries	100
FSS035-03	Construction Safety	100
FSS035-04	Chemical and Process Safety Management	100
FSS035-05	Safety, Health and Environmental Legislation	100
FSS035-06	Industrial Hygiene and Occupational Health	100
FSS035-07	Practical	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Post Diploma in Industrial Safety (SHE Management)

Course Overview

The Post Diploma in Industrial Safety (SHE Management) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS033-01	Safety, Health and Environment Management	100
FSS033-02	Occupational Health and Industrial Hygiene	100
FSS033-03	Hazard Identification and Assessment	100
FSS033-04	Safety in Construction	100
FSS033-05	Health and Safety Legislation	100
FSS033-06	Plant Layout and Materials Handling	100
FSS033-07	Safety in Chemical Industry	100
FSS033-08	Practical	100

Total Marks: 800

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.

- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Post Diploma in Industrial Safety (Construction & Law)

Course Overview

The Post Diploma in Industrial Safety (Construction & Law) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE)

institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS200-01	Safety, Health and Environment Management	100
FSS200-02	Occupational Health and Industrial Hygiene	100
FSS200-03	Hazard Identification and Assessment	100
FSS200-04	Safety in Construction	100
FSS200-05	Health and Safety Legislation	100
FSS200-06	Plant Layout and Materials Handling	100
FSS200-07	Practical	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.

- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Post Diploma in Industrial Safety (Engineering & Chemical)

Course Overview

The Post Diploma in Industrial Safety (Engineering & Chemical) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS200-01	Safety Management	100
FSS200-02	Industrial Safety Engineering	100
FSS200-03	Hazard Identification & Risk Control	100
FSS200-04	Safety in Chemical Industry	100
FSS200-05	Safety in Engineering Industries	100
FSS200-06	Project	100

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer

- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Post Diploma in Industrial Safety (Environmental & Law)

Course Overview

The Post Diploma in Industrial Safety (Environmental & Law) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.

- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS201-01	Safety & Law	100
FSS201-02	Environmental Education & Disaster Management	100
FSS201-03	Industrial Hygiene & Occupational Health	100
FSS201-04	Industrial Safety Engineering	100
FSS201-05	Construction Safety	100
FSS201-06	Industrial Hygiene & Occupational Health (Advanced)	100
FSS201-07	Safety & Environmental Engineering	100
FSS201-08	Practical	100

Total Marks: 800

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector

- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Post Diploma in Fire & Industrial Safety Management

Course Overview

The NSDVE Post Diploma in Fire & Industrial Safety Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.

- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS026-01	Fire & Safety Engineering	100
FSS026-02	Industrial Safety	100
FSS026-03	Construction & Health Safety	100
FSS026-04	Electrical Safety	100
FSS026-05	Environmental Safety	100
FSS026-06	Disaster Management Plan	100
FSS026-07	Practical	600

Total Marks: 1200

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor

- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Post Diploma in Fire & Safety Engineering Techniques

Course Overview

The NSDVE Post Diploma in Fire & Safety Engineering Techniques is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS012-01	Accident Prevention and Risk Management	100
FSS012-02	Fire Hydraulics and Fire Loss Control	100
FSS012-03	Safety in Electrical Systems	100
FSS012-04	Occupational Health and Safety	100
FSS012-05	Fire Prevention and Control	100
FSS012-06	Practical	500

Total Marks: 1000

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants

- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Post Diploma in Environmental and Sustainability Engineering

Course Overview

The Post Diploma in Environmental and Sustainability Engineering is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS503-01	Environment, Ecology & Ecosystem	100
FSS503-02	Sustainable Development Issues and Challenges	100
FSS503-03	Analytical & Instrumental Techniques of Monitoring	100

Subject Code	Subject Name	Marks
FSS503-04	Pollution Control & Waste Management	100
FSS503-05	Environmental Chemistry & Microbiology	100
FSS503-06	Environmental & Industrial Hygiene, Occupational Health & Safety	100
FSS503-07	Project	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations

- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Section D: Post Graduate Diploma Programs

Post Graduate Diploma in Construction Safety

Course Overview

The Post Graduate Diploma in Construction Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS500-01	Safety, Health & Environment in Construction	100
FSS500-02	Identification and Prevention of Workplace Hazards and Risks	100
FSS500-03	Disasters & Crisis Management	100
FSS500-04	Safety Standards & Codes	100
FSS500-05	Construction Safety	100
FSS500-06	Environment in Construction	100
FSS500-07	Project	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Post Graduate Diploma in Industrial Hygiene (Standard)

Course Overview

The Post Graduate Diploma in Industrial Hygiene (Standard) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS401-01	Human Physiology and Industrial Diseases	100
FSS401-02	Identifying, Measuring and Analysing Hazards & Exposures	100
FSS401-03	Fibres and Thermal Environment	100
FSS401-04	Approaches for Improving Working Conditions	100

Total Marks: 400

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.

- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Post Graduate Diploma in Industrial Hygiene (Comprehensive)

Course Overview

The Post Graduate Diploma in Industrial Hygiene (Comprehensive) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS401-01	Human Physiology and Industrial Diseases	100
FSS401-02	Identifying, Measuring and Analysing Hazards & Exposures	100
FSS401-03	Fibres and Thermal Environment	100
FSS401-04	Approaches for Improving Working Conditions	100
FSS401-05	Principles of Occupational Hygiene & OSHA	100
FSS401-06	Industrial Hygiene & Controlling Risks to Health	100
FSS401-07	Case Studies, Project & Practicals	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Post Graduate Diploma in Food Safety and Quality Management

Course Overview

The Post Graduate Diploma in Food Safety and Quality Management is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.

- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS033-01	Food Fundamentals and Chemistry	100
FSS033-02	Food Laws and Standards	100
FSS033-03	Food Safety and Quality Management System	100
FSS033-04	Food Microbiology	100
FSS033-05	Food Safety and Quality Auditing	100
FSS033-06	Chemical Analysis and Quality Assurance	100
FSS033-07	Project Work	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector

- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Post Graduate Diploma in Industrial Safety

Course Overview

The Post Graduate Diploma in Industrial Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.

- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS032-01	Industrial Safety Management	100
FSS032-02	Construction Safety	100
FSS032-03	Chemical and Process Safety Management	100
FSS032-04	Fire Engineering	100
FSS032-05	Applied Ergonomics	100
FSS032-06	Industrial Hygiene and Occupational Health	100
FSS032-07	Project	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor

- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Post Graduate Diploma in Fire and Safety

Course Overview

The Post Graduate Diploma in Fire and Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS200-01	Industrial Safety Management	100
FSS200-02	Safety in Engineering Industries	100
FSS200-03	Construction Safety	100
FSS200-04	Chemical and Process Safety Management	100
FSS200-05	Safety, Health and Environmental Legislation	100
FSS200-06	Industrial Hygiene and Occupational Health	100
FSS200-07	Project	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies

- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Section E: Certificate Programs

Certificate in Advanced CPR, First Aid and AED Instructor

Course Overview

The Certificate in Advanced CPR, First Aid and AED Instructor is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS602-01	Basics of CPR and AED Use	100
FSS602-02	Comprehensive First Aid Training	100
FSS602-03	Emergency Response Planning	100
FSS602-04	Trainer Methodology and Practice	100
FSS602-05	Legal and Ethical Considerations	100
FSS602-06	Practical	100

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Certificate in Fire Fighting Training

Course Overview

The Certificate in Fire Fighting Training is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS600-01	Fire Basics	100
FSS600-02	Fire Prevention and Control	100
FSS600-03	Fire Fighting Techniques	100
FSS600-04	Practical	100

Total Marks: 400

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.

- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Certificate in Fire Safety Instructor

Course Overview

The Certificate in Fire Safety Instructor is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS600-01	Fire Science and Prevention	100
FSS600-02	Firefighting Techniques and Equipment	100
FSS600-03	Emergency Planning and Management	100
FSS600-04	Legal Compliance and Safety Standards	100
FSS600-05	Advanced Firefighting Techniques	100
FSS600-06	Practical	100

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager

- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Certificate in First Aid

Course Overview

The Certificate in First Aid is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.

- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS90-01	Body Structure and Function	100
FSS90-02	Positioning of Casualty and Unconscious Casualty	100
FSS90-03	Basic First Aid and Artificial Respiration	100
FSS90-04	Wounds, Fractures and Bleeding	100
FSS90-05	Burns, Scalds and Management of Shock	100
FSS90-06	Bandages and Slings	100
FSS90-07	Transport of Casualty and Rescue Techniques	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor

- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Certificate in Safety Officers Training

Course Overview

The Certificate in Safety Officers Training is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS035-01	Advanced Occupational Health and Safety Management	100
FSS035-02	Fire Engineering and Emergency Preparedness	100
FSS035-03	Occupational Health and Industrial Hygiene	100
FSS035-04	Environmental Management	100
FSS035-05	Health and Safety Law	100
FSS035-06	Practical – I	100
FSS035-07	Practical – II	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Certificate in Scaffolding Safety

Course Overview

The Certificate in Scaffolding Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS500-01	Scaffold Design and Parts	100
FSS500-02	Scaffold Tags	100
FSS500-03	Scaffold Maintenance & Checklist	100
FSS500-04	Practical	100

Total Marks: 400

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries

- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Certificate in Scaffolding (Inspection and Erection) Trainer

Course Overview

The Certificate in Scaffolding (Inspection and Erection) Trainer is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS601-01	Scaffolding Safety Standards and Compliance	100
FSS601-02	Scaffolding Inspection and Risk Assessment	100
FSS601-03	Erection and Dismantling Techniques	100
FSS601-04	Trainer Methodology for Scaffolding	100
FSS601-05	Practical Assessment	100

Total Marks: 500

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Certificate in Permit to Work

Course Overview

The Certificate in Permit to Work is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS033-01	Fundamentals of Permit-to-Work (PTW) Systems	100
FSS032-02	Types of Work Permit	100
FSS032-03	Isolation and Lockout/Tagout (LOTO)	100
FSS032-04	Area Preparation and Site Inspection	100
FSS032-05	Procedures and Communication	100
FSS033-06	Practical	100

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.

- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Certificate Course in Fire Engineering

Course Overview

The NSDVE Certificate Course in Fire Engineering is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and

national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS024-01	Fire Engineering Science	100
FSS024-02	Fire Extinction Science	100
FSS024-03	Fire Prevention & Protection	100
FSS024-04	Fire Service Administration	100
FSS024-05	Practical Fire Fighting Drill	100
FSS024-06	Practical	500

Total Marks: 1000

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.

- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Certificate in Fire & Safety Engineering Techniques

Course Overview

The NSDVE Certificate in Fire & Safety Engineering Techniques is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.

- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS011-01	Communicative English and Computer Fundamentals	100
FSS011-02	Basic Safety Engineering	100
FSS011-03	Fire Prevention and Control	100
FSS011-04	Occupational Health and Control	100
FSS011-05	Practical	400

Total Marks: 800

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer

- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Certificate in Fire Safety Engineering

Course Overview

The NSDVE Certificate in Fire Safety Engineering is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.

- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS034-01	Fire Service Management	100
FSS034-02	Fire Engineering Science	100
FSS034-03	Fire Service Equipment and Appliances	100
FSS034-04	Fire Ground Operations and Communication	100
FSS034-05	Fire Fighting Drills	100
FSS034-06	Fire Service Equipment	100
FSS034-07	Rescue Techniques	100

Total Marks: 700

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor

- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Certificate in Safety Officers Training

Course Overview

The NSDVE Certificate in Safety Officers Training is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS400-01	Introduction to Basic Health and Safety	100
FSS400-02	Health and Safety Law	100
FSS400-03	HSE Documentation	100
FSS400-04	Practical – I	100
FSS400-05	Practical – II	100

Total Marks: 500

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies

- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Certificate in Confined Space Safety

Course Overview

The Certificate in Confined Space Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
CSS001-01	Confined Space Entry Fundamentals	100
CSS001-02	Hazard Identification in Confined Spaces	100
CSS001-03	Rescue Procedures and Emergency Response	100
CSS001-04	Atmospheric Testing and PPE Use	100

Subject Code	Subject Name	Marks
CSS001-05	Practical	100

Total Marks: 500

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities

- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Certificate in OHS Trainer for Workspace Safety

Course Overview

The Certificate in OHS Trainer for Workspace Safety is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
OHS001-01	Occupational Health & Safety Principles	100
OHS001-02	Trainer Skills and Methodology	100
OHS001-03	Workplace Hazard Communication	100
OHS001-04	Practical Assessment	100

Total Marks: 400

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.

- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Certificate in Oil and Gas Safety Training

Course Overview

The Certificate in Oil and Gas Safety Training is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip

students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
OGS001-01	Oil and Gas Industry Overview and Safety Culture	100
OGS001-02	Process Hazards and Risk Management	100
OGS001-03	Emergency Response and Evacuation	100
OGS001-04	Permit to Work and Safe Systems	100
OGS001-05	Practical	100

Total Marks: 500

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.

- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Section F: Specialized Technical Programs

NSDVE Fire Technician

Course Overview

The NSDVE Fire Technician is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS004-01	Communicative English and Computer Fundamentals	100
FSS004-02	Accident Prevention and Risk Management	100
FSS004-03	Safety in Electrical Systems	100
FSS004-04	Fire Safety and Prevention Techniques	100
FSS004-05	Practical	400

Total Marks: 800

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.

- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Fire Technician (Advanced)

Course Overview

The NSDVE Fire Technician (Advanced) is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS021-01	Communicative English and Computer Fundamentals	100
FSS021-02	Accident Prevention & Risk Management	100
FSS021-03	Safety in Electrical Systems	100
FSS021-04	Fire Safety & Prevention Techniques	100
FSS021-05	Practical	400

Total Marks: 800

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.

- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Forklift Operator Training

Course Overview

The NSDVE Forklift Operator Training is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.
- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS040-01	Forklift Safety & Regulations	100
FSS040-02	Forklift Operations & Controls	100
FSS040-03	Load Handling & Stability	100
FSS040-04	Inspection	100
FSS040-05	Maintenance & Emergency Procedures	100

Total Marks: 500

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager

- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor
- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

NSDVE Work Permit Receiver

Course Overview

The NSDVE Work Permit Receiver is a professionally designed programme offered by the National Skill Development and Vocational Education (NSDVE) institution, structured to equip students with comprehensive theoretical knowledge and hands-on practical competencies in fire, industrial, and occupational safety. This programme meets international and national safety standards and prepares graduates for immediate employment across a wide spectrum of hazardous industries. The curriculum integrates core fire safety principles with modern industrial risk management methodologies, ensuring that students are well-versed in proactive hazard control and emergency response protocols.

Course Objectives

- To develop a thorough understanding of fire science, industrial safety principles, and occupational health fundamentals.
- To train students in the identification, assessment, and control of hazards prevalent in industrial, construction, and offshore environments.
- To build competency in emergency response planning, rescue techniques, and crisis management protocols.
- To familiarise students with national and international safety legislation, compliance frameworks, and regulatory requirements.

- To develop risk assessment skills, safety audit capabilities, and hazard reporting proficiency.
- To prepare students for professional roles as Safety Officers, HSE Executives, Fire Officers, and Industrial Safety Supervisors.
- To provide practical exposure through laboratory sessions, fire drills, mock exercises, and industrial site visits.

Subjects / Modules

Subject Code	Subject Name	Marks
FSS033-01	Fundamentals of Permit-to-Work (PTW) Systems	100
FSS032-02	Types of Work Permit	100
FSS032-03	Isolation and Lockout/Tagout (LOTO)	100
FSS032-04	Area Preparation and Site Inspection	100
FSS032-05	Procedures and Communication	100
FSS033-06	Practical	100

Total Marks: 600

Practical Training Components

- Industrial fire drill simulations and mock emergency response exercises.
- Hands-on training with fire extinguishers, hydrant systems, and suppression equipment.
- Personal Protective Equipment (PPE) identification, inspection, and donning demonstrations.
- Hazard identification walks and workplace risk assessment exercises.
- Confined space entry training and rescue simulation.
- Construction site safety inspections and scaffolding safety practicals.
- First aid and Cardiopulmonary Resuscitation (CPR) demonstrations.
- Environmental monitoring exercises and chemical handling simulations.
- Industrial site visits to manufacturing plants, refineries, and construction sites.
- Safety audit preparation and mock HSE documentation reviews.

Career Opportunities

- Safety Officer / Senior Safety Officer
- Fire Officer / Fire Sub-Officer
- HSE Officer / HSE Manager
- Industrial Safety Executive / Safety Supervisor
- Construction Safety Officer / Site Safety Inspector
- Environmental Safety Officer
- Offshore Safety Officer / Rig Safety Technician
- Occupational Health & Safety Manager
- Risk Assessment Officer / Safety Auditor
- Safety Trainer / Safety Instructor

- Industrial Hygienist
- Fire Technician / Fire Protection Engineer
- Disaster Management Coordinator

Industry Scope

- Oil & Gas refineries and exploration companies
- Petrochemical and chemical manufacturing plants
- Construction and infrastructure development companies
- Heavy engineering and manufacturing industries
- Mining and quarrying operations
- Shipping, ports, and maritime industries
- Aviation and airport authorities
- Power generation plants and electrical utilities
- Government safety regulatory bodies and municipal fire departments
- Warehousing, logistics, and supply chain facilities
- Offshore drilling rigs and subsea operations
- Hospitals, educational institutions, and large commercial establishments

Industry Demand for Fire & Safety Professionals

The global demand for certified fire and safety professionals has never been greater. As industries expand and regulatory frameworks become increasingly stringent, organisations across the world are investing heavily in dedicated safety teams to protect their workforce, comply with legislation, and maintain their licence to operate. The following section outlines the key drivers of this demand and the opportunities available to NSDVE graduates.

Mandatory Statutory Compliance: National and state labour legislations, factory acts, building codes, and environmental regulations mandate the appointment of qualified safety officers and fire safety personnel in industries employing above prescribed workforce thresholds. This statutory requirement generates continuous employment demand for certified safety professionals.

Rapid Growth of the Oil & Gas Sector: The oil, gas, and petrochemical industries are among the largest employers of fire and safety professionals globally. From upstream exploration to downstream refining, every stage of petroleum operations requires extensive HSE management, creating sustained demand for specialised offshore and process safety graduates.

Expansion of Infrastructure and Construction: Large-scale infrastructure projects, smart city developments, metro rail construction, and commercial building booms have significantly increased the demand for construction safety officers, site safety inspectors, and scaffold safety specialists.

International Employment Opportunities: Safety professionals certified to international standards find strong employment opportunities in the Gulf Cooperation Council (GCC) countries, Southeast Asia, the United Kingdom, Australia, and Africa, where HSE roles command attractive remuneration packages.

Government Safety Initiatives: National safety awareness campaigns, occupational health mandates, and skill development schemes have created a structured pipeline of government-sector employment for trained fire and safety graduates in fire services, municipal bodies, industrial estates, and regulatory authorities.

Growing Emphasis on Environmental Compliance: Increasing corporate focus on environmental sustainability, ISO 14001 compliance, and carbon emission management has created parallel demand for environmental safety officers and sustainability engineers.

Industrial Accident Prevention Focus: High-profile industrial accidents have prompted organisations to strengthen their safety teams, conduct more rigorous safety audits, and invest in preventive safety management, further driving demand for qualified safety professionals.

Certification & Training Standards

NSDVE maintains rigorous certification standards that ensure all graduates have demonstrated genuine competency across both theoretical and practical dimensions of their programme. The certification process encompasses multiple evaluation checkpoints designed to validate knowledge, skill, and professional conduct.

- Written examinations at the end of each subject module, testing theoretical understanding and application of safety concepts.
- Practical assessments evaluated by certified faculty, assessing hands-on competency in fire fighting, first aid, hazard identification, PPE use, and emergency response.
- Industrial project submissions demonstrating the student's ability to apply safety management principles in realistic workplace contexts.
- Continuous internal assessment through class participation, assignments, case study presentations, and group exercises.
- Mandatory attendance requirements of a minimum of 75% for theory sessions and 100% for practical training components.
- Comprehensive viva voce examinations for Post Diploma and Post Graduate Diploma programmes, assessing depth of understanding and professional communication.
- Safety drill performance evaluations during mock emergency exercises, assessing command, coordination, and individual response capability.
- Final project presentations before an expert panel for higher-level programmes, demonstrating independent research and professional safety analysis capability.

Upon successful completion of all assessments, students are awarded the respective NSDVE certification, which serves as an official credential recognised by industry employers, government departments, and professional safety bodies. Certificates are issued with secure authentication features and are available in both physical and verifiable digital formats.

Admission Information

Eligibility Criteria

Eligibility requirements vary by programme level as follows:

Certificate Programs: Minimum completion of Class 10 (Secondary School Certificate) or equivalent. No prior safety experience required.

Diploma Programs: Minimum completion of Class 12 (Higher Secondary Certificate) or equivalent. ITI or vocational qualifications may also be considered.

Advanced Diploma Programs: Completion of Class 12 with a science background, or a Diploma in any relevant technical or engineering discipline.

Post Diploma Programs: Possession of a recognised Diploma in Fire & Safety, Industrial Safety, or a related technical discipline from a recognised institution.

Post Graduate Diploma Programs: Possession of a Bachelor's Degree (B.Sc., B.Tech., B.E., or equivalent) in any science, engineering, or technical discipline. Relevant work experience in safety is an added advantage.

Programme Duration

- Certificate Programmes: 1 to 3 months
- Diploma Programmes: 6 to 12 months
- Advanced Diploma Programmes: 12 to 18 months
- Post Diploma Programmes: 6 to 12 months (after qualifying Diploma)
- Post Graduate Diploma Programmes: 12 to 18 months (after qualifying Degree)

Certification Benefits

- Nationally and internationally recognised professional credentials in fire and safety.
- Eligibility to apply for Safety Officer, HSE Officer, and Fire Officer positions in industry.
- Foundation qualification for advanced safety certifications such as NEBOSH, IOSH, and ISO 45001 Lead Auditor.
- Enhanced career prospects in high-growth sectors including oil and gas, construction, manufacturing, and government services.
- Professional development pathway leading to senior HSE management, safety consultancy, and safety training roles.
- Access to NSDVE's alumni network, placement support, and continuing professional development resources.

Conclusion

The field of fire and safety education represents not merely a professional discipline but a profound commitment to the preservation of human life, the protection of industrial assets, and the sustainability of our working and living environments. NSDVE's comprehensive portfolio of fire and safety programmes is designed with this commitment at its core — preparing students not only to understand safety but to embody it, practice it, and champion it throughout their professional lives.

Graduates of NSDVE's programmes enter the workforce as confident, competent, and ethically grounded safety professionals, ready to take on the challenges of complex industrial environments with technical expertise, practical acumen, and a steadfast dedication to zero-harm principles. Whether working as a Safety Officer on a busy construction site, an HSE Manager in a petrochemical refinery, a Fire Officer in an emergency response team, or an Environmental Safety Specialist in a sustainability-focused organisation, NSDVE graduates carry with them the knowledge, skills, and credentials to make a real and lasting difference.

NSDVE invites aspiring safety professionals, working industry personnel, and career-changers to explore its rich programme offerings and take the first decisive step towards a rewarding, impactful, and future-proof career in fire and safety. The world needs more safety professionals — and NSDVE is committed to training them to the highest possible standard.

NSDVE — Committed to Safety. Committed to Excellence.