DIPLOMA IN FIRE & SAFETY ENGINEERING

Transform your passion for safety into a rewarding career!

Duration: 1 Year | **Diploma** · Beginner | **Eligibility:** Candidates must have completed their 10th standard or equiva

OVERVIEW OF THE COURSE

The Diploma in Fire & Safety Engineering is a comprehensive program designed to equip students with the necessary skills and knowledge to ensure safety in various environments. This course covers essential topics such as fire prevention, risk assessment, and safety management. Understand the principles of fire safety and risk ma...

- Comprehensive fire safety training
- Hands-on practical experience
- Expert faculty guidance
- Industry-relevant case studies
- Emergency response skills development



1 Year	12	4	4
DURATION	SUBJECTS	PROJECTS	TOOLS

JOIN NOW → | WhatsApp us

WE ARE AVAILABLE AT
600+ LOCATIONS

NOT SURE WHICH COURSE IS RIGHT FOR YOU?
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YOUR NEAREST ISDM NxT CENTRE
ISDM-VADODARA
309, Saffron Plaza, Airport Road, Above Jagdish Farsan, Vadodara, Gujarat - 390022
Call / WhatsApp: **6263625594** · inquiry.isdm@gmail.com

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COURSE CURRICULUM

What you will learn

01 Subjects → | 02 Projects → | 03 Tools

01 Subjects & modules

12 subjects with the topics you will learn

01 Fundamentals of Fire & Safety

- Fire Triangle And Tetrahedron
- Classes Of Fire
- Fire Extinguishing Methods
- Fire Safety Terminology
- Heat Transfer Methods

02 Fire Prevention & Control

- Smoke, Heat, And Flame Detection
- Manual And Automatic Fire Alarms
- Fire Hydrant Systems
- Fire Sprinkler Systems
- Fire Hydrant Layout Planning
- System Integration And Maintenance

03 Industrial Safety Engineering

- Mechanical, Electrical, Chemical, And Biological Hazards
- Hazard Controls, Permits, And Emergency Response
- Hazard Identification And Risk Assessment
- Job Safety Analysis And Task Controls
- Accident Causes And Root Cause Investigation
- Incident Reporting And Organizational Learning
- Workplace Safety Inspections And Checklists

04 First Aid & Emergency Response

- Burn Recognition and First Response
- Life-Threatening Bleeding Control
- Shock and Anaphylaxis Response
- Fracture Assessment and Immobilization
- Adult CPR and AED Response
- Pediatric CPR and Choking Relief
- Emergency Triage and Handover

05 Disaster Management

- Earthquake Risk Reduction And Response
- Flood Preparedness And Early Recovery
- Cyclone Forecasting And Evacuation
- Industrial Accident Prevention And Response
- Oil Spill Response And Environmental Recovery
- Gas Leak Detection And Public Protection
- Community Preparedness, Response And Recovery

06 Fire Protection in Buildings

- Fire Load Calculation And Assessment
- Fire Load Applications In Design And Response
- High-Rise Building Fire Safety
- Fire Safety In Public Places
- National Building Code Fire Provisions
- Building Evacuation Planning And Drills

07 Construction Safety Management

- Hazard Recognition And Risk Controls
- Physical And Occupational Health Hazards
- Excavation, Hot Work, And Site Conditions
- Work At Height And Fall Protection
- Scaffold, Harness, And Ladder Safety
- Confined Space Hazards And Atmospheric Controls
- Entry Permits, Roles, And Communication

08 Electrical & Chemical Safety

- Electrical Hazards And Risk Controls
- Lockout/Tagout And Zero-Energy Verification
- Earthing, Bonding, And Circuit Protection
- Chemical Hazards And Safe Storage
- Chemical Handling, SDS, And Spill Response
- Hazardous Waste Identification And Segregation
- Waste Storage, Transport, And Documentation

09 Environmental Safety & Sustainability

- Air Pollution Control
- Water Pollution Control And Reuse
- Noise Pollution Control
- Solid Waste Management
- EHS Risk Management And Leadership
- ISO 14001 And ISO 45001
- Community Environmental Assessment

10 Safety Audits & Inspections

- Internal, External, and Legal Audits
- Safety Documentation and Document Control
- Checklist Design and Adoption
- Digital Inspections and Evidence Management
- Factories Act and PESO Compliance
- Fire Safety Norms and Auditing
- Audit Reporting, Risk Rating, and CAPA

11 Case Studies & Industrial Training

- Bhopal Gas Tragedy And Process Safety
- Styrene Storage And Restart Safety
- Hotel Fire Egress And Protection
- Factory Explosions And Hot-Work Controls
- Industrial Visits And Site Safety Checks
- Emergency Drills And Rescue Planning
- Incident Analysis And Corrective Actions

12 Project Work & Final Assessment

- Comprehensive Fire Safety Planning
- Hazard Identification And Risk Assessment
- Active And Passive Fire Protection
- Emergency Response, Evacuation, And Preparedness
- Implementation, Monitoring, And Continuous Improvement
- Project Development, Documentation, And Governance
- Written, Practical, And Viva Assessment

02 Projects & assignments

Hands-on work for your portfolio

P1 Design a fire safety plan for a residential building.

P2 Conduct a risk assessment for an industrial facility.

P3 Develop an emergency response plan for a public event.

P4 Create a presentation on the latest fire protection technologies.

03 Tools & software you will master

4 industry tools



AutoCAD



MS Excel

FS

Fire Safety Simulation S

CS

Chemical Safety Manageme

CAREER OPPORTUNITIES

Where this course can take you

Fire Safety Officer
Fresher salary: ₹2.4-3.6 LPA*

Safety Consultant
Fresher salary: ₹2.5-4.0 LPA*

Fire Protection Engineer
Fresher salary: ₹3.0-5.0 LPA*

Emergency Management Specialist
Fresher salary: ₹2.8-4.5 LPA*

Safety Trainer
Fresher salary: ₹2.2-3.8 LPA*

Freelancing & own business

- Safety consultancy for small businesses
- Fire safety audits for local industries
- Training sessions for first aid and safety
- Developing safety manuals and protocols

Industries that hire

- Construction
- Manufacturing
- Oil & Gas
- Public Safety
- Chemical Processing

Grow further

- Advanced Diploma in Fire Safety Management
- Bachelor's in Safety Engineering
- Specialization courses in Industrial Safety
- Certification in Emergency Management

Certification

Upon successful completion, students receive an ISDM NxT certificate, validating their skills in fire and safety engineering.

Practical project | Final online test | Verifiable certificate

JOB SUPPORT

How we help you get a job

1
Resume building assistance

2
Mock interviews to boost confidence

3
Access to job offers tailored for students

4
Guidance on job applications and follow-ups

* Typical fresher salary ranges in India; the actual salary depends on the employer, the city and your skills.

WHY START NOW

Your future is built by the skills you learn today.

Companies hire people who can do the work. Every month you practise adds a project to your portfolio - the best time to start is now.

18+	600+	2,708+	390+
Years of training experience	Centres across India	Job offers to our students	Hiring companies

UNIQUE FEATURES AT ISDM NxT

- ✓ Free pre-counselling to choose the right course
- ✓ Study material, attendance, assignments, exams and results online from day one
- ✓ 24x7 AI trainer (ChatNxT) for your doubts
- ✓ Experienced, rated trainers and daily class feedback
- ✓ Practical lab sessions and live projects
- ✓ Monthly online mentorship sessions
- ✓ Resume, mock interviews and job offers in your student dashboard
- ✓ Freelancing and start-up guidance

● LIVE PLACEMENT DATA

Latest job offers to ISDM NxT students

Updated 20 Nov 2026



Gaurav M.
India
Java Software Development Engineer
Health Catalyst



Geeta K.
New Delhi
tellecaller for digital marketing
balajimarketingexperts



Anand S.
Muvattupuzha
Hiring Junior Account Executive J...
CorpZop



Adarsh S.
Ghugus
TGT Computer Science
Adani Foundation



Priyanka Y.
Mumbai
Data Entry Operator (Full-time) -...
CorpZop



Rajan S.
Ahilyanagar
Computer Trainer
Enlearning skill development Ltd

Job offers shared with our students through the ISDM NxT job network. See all at isdmnext.in/latest-placement

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CLAIM NOW

TAKE THE FIRST STEP

Book your FREE counselling session today

Meet our counsellor, see the lab, get your doubts answered and know the current fees and offers for your centre.

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01
Counselling
Free guidance to pick the right course

02
Training
Practical classes, labs and projects

03
Mentoring
Experts, AI trainer and feedback

04
Placement support
Resume, interviews and job offers

What you get with this course

- Comprehensive study material
- Hands-on practical lab sessions
- Live projects for real-world experience
- 24x7 AI trainer support
- AI career counselling
- Interview preparation sessions
- Job offers in student dashboard
- Certificate upon completion

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Fees depend on the centre and current offers - ask your counsellor. Course content may be updated to stay current with industry needs. · isdmnext.in