

Core Curriculum Modules

Most diploma and certification programs in Industrial Safety cover the following key areas:

◆ 1. Fundamentals of Industrial Safety

- Introduction to occupational health & safety
 - Roles & responsibilities of a safety officer
 - Basic safety concepts and accident theory
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◆ 2. Fire & Electrical Safety

- Types and causes of industrial fires
 - Fire detection and suppression systems
 - Electrical hazards and lockout/tagout procedures
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◆ 3. Hazard Identification and Risk Assessment (HIRA)

- Types of workplace hazards (physical, chemical, biological)

- Steps to assess and mitigate risks
 - Job safety analysis (JSA) techniques
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◆ **4. Industrial Legislation and Safety Standards**

- The Factories Act, 1948
 - OSHA, ISO 45001, and other global standards
 - Legal duties of employers and workers
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◆ **5. Emergency Planning and Disaster Management**

- Evacuation procedures
 - First aid and CPR basics
 - Handling chemical spills and explosions
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◆ **6. Environmental Health & Safety (EHS)**

- Waste management

- Environmental pollution and control measures
 - ISO 14001 introduction
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♦ 7. Safety Management Systems (SMS)

- Incident reporting and investigation
 - Safety audits and inspections
 - Behavior-based safety (BBS)
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Learning Outcomes

By the end of the course, learners will be able to:

- ✓ Identify and assess workplace hazards
 - ✓ Implement preventive and corrective safety measures
 - ✓ Comply with national and international safety regulations
 - ✓ Create and manage effective safety policies and emergency plans
 - ✓ Conduct risk assessments and safety audits
 - ✓ Improve workplace safety culture and reduce accident rates
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 **Ideal for:**

- Aspiring safety officers and supervisors
- Engineering and science graduates
- Professionals seeking global HSE roles
- Working individuals upskilling in occupational safety