



## Fire & Safety Engineering & Construction Safety

### Training Details

<b>Course Code</b>	<b>: HCCC54</b>
<b>Course Name</b>	<b>: Fire &amp; Safety Engineering &amp; Construction Safety</b>
<b>Duration</b>	<b>: 2 Months</b>
<b>Eligibility</b>	<b>: Diploma / BE / ME (CIVIL)/ ITI / +2 / Equivalent</b>

### Syllabus:

#### SAFETY MANAGEMENT

- International Health Safety Regulation
- Basic Safety management
- Emergency Response plan
- Explosure
- Security Management

#### SAFETY

- Basic Safety
- Ladders
- Scaffold
- Rope
- PPE (Personal Protective Equipment)
- Safety Construction
- Road Work Safety
- Air Quality Management
- Air Craft

**Address:**  
163 C/1, First Floor, Kamarajar Salai,  
NP TVS Showroom Opp., Ganesh Theatre Signal,  
Santha Pettai Bus Stop Near,  
Madurai – 625 009.



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- Ship Fire fighting
- Electrical Safety
- Grinding Wheel (Mechanical Safety)

## **FIRE**

- ESSENTIAL OF FIRE
  - FIRE EXTINGUISHERS
    - i. ABC
    - ii. Co2
    - iii. DCP
    - iv. Foam
    - v. Water + Co2
    - vi. Halogenated
  - PHYSICAL REACTION
    - i. Starvation
    - ii. Smothering
    - iii. Cooling
  - FLAMMABLE LIQUIDS
  - LPG
  - FLAMMABILITY
  - HYDRANT
  - HYDRAULICS
  - LADDERS
- FIRST AID**

## **Construction Safety**

- Introduction about- Human importance, Safety, General safety, Projects
- PPE (Personal Protective Equipment)
- Hazards, Types of Hazards
- Risk Management
- Tool Handling Safety PPT
- Accidents theory
- 2) Domino's Theory
- PPT Presentation
- 3)Hepburn's Theory
- Causes of Accidents and Types of Accidents, Cost of Accident and Injury
- Mechanical Hazards, Electrical Hazards PPT
- Accident Prevention

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- Electrical Hazards PPT
- Measurement of Safety Performance with Example
- Weekly Assessment 1
- 5 E's of Accident Prevention Engineering
- Confined Space Hazards PPT
- Safety Audit
- Material Handling PPT
- Audit Elements & Examination of documents
- Accident Investigation
- Videos about Accident
- Accident Investigation Report Format
- Videos about Accident
- Work Permit
- Weekly Assessment 2
- Emergency Planning
- Housekeeping PPT
- Ventilation, Lighting, Temperature in Industries
- Safety Symbols PPT
- Safety Management and safety Laws
- Basics of Fire
- Fire Triangle, Tetrahedron PPT
- Classes of Fire, Methods of Extinguishment
- Extinguishing Media PPT
- Portable Fire Extinguisher, Water type and Foam type
- Weekly Assessment 3
- CO<sub>2</sub> Extinguisher, DCP
- Portable Fire Fighting Extinguisher PPT
- Fire Hose, Suction, Delivery Hose, Sizes of Hoses
- Fire Fighting PPT
- Fire protective clothing and Breathing Apparatus
- Fire detectors- Heat, Smoke and Fire
- Fixed Fire Fighting Systems
- Practical Training: Fire Fighting
- General Machinery Safety with Pictures

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