

ABI 16010 – Technical Safety Management©



COURSE OVERVIEW

PRE-REQUISITE: NONE

DURATION: 5 Days

Target audience

1. Senior Process Engineers
2. Senior Safety Technicians
3. Process Safety Managers
4. Process safety Engineers
5. Technical Safety specialists
6. Functional Safety Specialists
7. Reliability Engineers, Maintenance Managers
8. HSE Specialists and Safety Consultants

COURSE CONTENT

UNIT 1 – The safety life cycle

Element 1 – Major industrial accidents

- Bopal – union carbide
- Piper Alpha – occidental petroleum
- Flixborough – nitrogen fertilisers
- MANY OTHERS – Seveso / Mexico City / Pasadena / Chenobyl / Three Mile Island

Element 2 – Time effect

- Bhopal – union carbon into liquidation
- Piper Alpha
- Flixborough

Element 3 – Causal tree

- Indirect root and direct causation
- Regulative powers
- The effect on industry
- Incident management

UNIT 2 – Hazard identification

Element 1 – Identifying hazards

- Assess risk in the workplace
- Identify hazards
- Understand the implication of monitoring
- Identify who
- Identify activities range

Element 2 – Risk management

- Assess risk management
- Range – determine risks to health and safety and who is affected
- Prioritise the health and safety risk
- Identify additional measures
- Managers – leadership – directors, senior line, functional, technical and employees
- Risk assessment
- Event tree analysis
- Fault tree analysis
- HAZID & HAZOP

UNIT 3 – Effect of major incident on business

- Loss of reputation
- Loss of orders
- Loss of business continuity
- Loss of capital
- Regulators fines
- Common law claims

UNIT 4 – Regulations and the effect

- Statue law
- Common law
- External influences on health and safety within an organization

UNIT 5 – Employee safety

- Actions to ensure employee safety
- Control of hazards – to eliminate accidents
- Relevant statutory provisions applied
- Take measures to eliminate or minimize the risk derived from those hazards
- Organizational – control procedures / P.T.W method statement policies
- Investigation into hazards and dangerous occurrences in the workplace
- Communication with employees, complaints
- Safety meetings
- Develop safety rules and systemized work
- Monitor safety training
- Review future developments and changes
- Training programmes
- Monitor effectiveness of policies
- PPE – stored correctly – issued correctly and fit for purpose
- Human factors

UNIT 6 – Sustainable safety instruments

- Long term planning to maintain stability
- Corporate responsibility – the union of economic, social and environmental responsibility
- Relationships to safety
- Opportunity – proactive sustainability
- Transparency – reporting
- Like minded organisations

UNIT 7 – Strategy

- Identify and consider emergency
- Issue and develop opportunities along with associated risks
- Innovating, improving sustainable business options

UNIT 8 – Ethics

- Spirit of and content of statutory regulations
- Develop continuous improvement
- Work with stakeholder
- Morally – people matter

The course is delivered through live streaming or can be deliver in a classroom environment
Followed by a Multiple Choice exam paper of 30 questions