

Fire and Chemical Safety Training



Safecon

A Training and Consultancy company
for all your Health and Safety needs.

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Fire and Chemical
Safety Training

Welcome to Safecon Training and Consultancy

Safecon's client base expands across Ireland's leading private sector organisations, including numerous public and Government departments to small firms with a handful of employees. We make no distinction in terms of quality of service provided to our cliental.

With offices in Dublin, Limerick, Galway and further resources through out the country, our Training & Consultancy Division is well positioned and ready to meet any requirement our clients may have. We offer a wealth of experience and provide bespoke and cost effective solutions for all your health & safety needs.

As an innovative and forward thinking company we continually dedicate time & resources toward product & services research & development.

Did you know?

The Safety Health & Welfare at Work Act 2007 and General Application Regulation 2007, places "General Duties" on every employer to provide:

- Information for employees.
- Instruction, training & supervision of employees.
- Provisions for handling emergencies & serious & imminent dangers.
- Protective & preventative measures such as – Hazard Identification & Risk Assessment, Safety Statement, Health Surveillance,
- Medical Fitness to Work, Joint Safety & Health Agreements.
- The "General Duties" must cover persons other than their employees.
- Obtaining where necessary the services of a "Competent" person (whether under contract of employment or otherwise) for the purpose of ensuring so far as reasonably & practicable the safety health & welfare at work of his or her employees.

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1.0 Chemical Safety

Course Details:

Chemical Safety Training - This course is designed to train participants how to handle chemicals safely. Non-specialist staffs that need to recognise, assess and protect themselves from chemical hazards in the workplace.

Programme:

Learners who successfully complete this module will:

- List routes of entry of chemicals into the body
- Identify health effects of chemicals
- Identify warning symbols and read relevant product warning labels
- Use an MSDS (Material Safety Data Sheet)
- Identify and use different types of available PPE
- Introduction to chemicals
- Routes of entry into the body
- Health effects
- Classification of hazardous substances
- Warning signs
- Material Safety Data Sheets
- Control of hazards
- Personnel Protective Equipment

Who should attend?

Non-specialist staffs that need to recognise, assess and protect themselves from chemical hazards in the workplace.

Pre-Course Requirements:

None

Certification:

Full certification of attendance will be provided on successful completion of the course.

Duration:

4 hours

Participation:

Maximum of 10

1.1 Chemical Spill

Course Details:

This one day chemical spill training course is aimed at all personnel with responsibility for chemicals and ERT Teams who have to deal with chemical spillages.

Objective:

On completion of this course participants will be able to:

- List routes of entry of chemicals into the body
- Identify health effects of chemicals
- Identify warning symbols and read relevant product warning label
- Use an MSDS (Material Safety Data Sheet)
- Identify and use different types of available PPE (Personal Protective Equipment)

Programme:

- Legal Overview – Employer & Employee duties in current legislation.
- Routes of Entry of Chemicals – how chemicals can adversely affect us depending on route of entry, dose and duration of exposure.
- Classification of Hazardous Substances – site-specific information in relation to particular chemicals can be addressed in this section.
- Use of Material Safety Data Sheets.
- Overview of Safe Systems of Work to include `Permit to Work` & `Hot Work` permits.
- Overview of Control Strategies in relation to the Handling of Chemicals

Who Should Attend:

This course is intended for personnel with responsibility for chemicals and ERT Teams who come into contact with chemicals in the workplace

Pre-Course Requirements:

None

Certification:

Full certification of attendance will be provided on successful completion of the course.

Duration:

1 day

Participation:

Maximum of 12

1.2 ATEX Awareness

Objective:

Delegates to this course will understand:

- The requirements of the Directive and the Explosive Atmospheres Regulations
- What procedures and permits to work are required
- What steps need to be taken to achieve compliance
- What flammability data is required
- How to identify hazardous areas
- How to identify potential ignition sources
- How to mitigate explosion hazards

Programme:

- Overview of Directive and Explosive Atmosphere Regulations
- Organisational and training requirements
- Documentation and permit to work requirements
- Flammable materials and flammability data
- Area and zone classification
- Sources of ignition
- Explosion prevention and protection
- Explosion protection documents

Who Should Attend:

Personnel responsible for process safety in the workplace, Engineering Managers, Maintenance Managers, Production Managers, EH&S Personnel, Safety Officers and personnel who work in an explosive environment.

Pre-Course Requirements:

None

Certification:

Full certification of attendance will be provided on successful completion of the course.

Duration:

1 day

Participation:

Maximum of 12

1.3 HAZOPS

Objective:

To provide participants with the background of how process hazard analyses (PHA's) are performed. The course explains the importance of PHA's for existing plants and PHA's/Hazard reviews for changes to processes.

Programme:

- Introduction
- Regulatory requirements for risk assessment (PHA's)
- Overview of FMEA (Failure Mode Effect Analysis)
- Overview of FTA (Fault Tree Analysis)
- Overview of HRA (Human Reliability Analysis)
- The Flixborough Disaster
- HAZOP Overview
- The HAZOP Process
- Case Study
- HAZOP Method
- HAZOP Recording
- Application to Continuous and Batch Processes
- Team meetings and team member responsibilities
- Making risk judgements in team settings
- Hazard recording and reporting
- Hazard Studies 1-6

Workshops will be included throughout the training

Who Should Attend:

This training is ideal for managers, operations and maintenance staff, process reliability and quality control/assurance staff and anyone who needs a general understanding of PHA's.

Pre-Course Requirements:

None

Certification:

Full certification of attendance will be provided on successful completion of the course.

Duration:

2 days

Participation:

Maximum of 10

1.4 Basic Fire Safety

Course Details:

This half day course is designed to raise awareness of fire hazards and how to act safely in the event of an emergency fire situation.

Objective:

On completion of this course participants will be able to:

- Describe the chemistry of fire
- Identify fire hazards in the workplace
- Use and maintain portable fire extinguishers and hydrants
- Test evacuation procedures

Programme:

- Introduction
- Means of summoning the fire brigade
- Course Objectives
- Action on hearing the fire alarm
- Causes/Costs of fire
- Evacuation procedures
- Fire Safety Legislation (Overview)
- Tackling the fire
- Understanding Fire
- Role of the fire warden
- Physics and Chemistry of fire
- Assisting the fire brigade
- Development and spread of fire
- Course Review and Close
- Action in the event of fire
- A practical demonstration of fire extinguishers
- Means of raising alarm

Who Should Attend:

This course is suitable for anyone who is required to enhance their fire safety knowledge.

Pre-Course Requirements

- Fire extinguishers can either be supplied by you or hired through Safecon at an extra fee.
- Please note that the use of fire extinguishers during this training requires a wide-open space where a practical demonstration can take place safely.

Assessment / Certification

Safecon Certificate of Awareness in Basic Fire Safety

Duration:

4 Hours

Participation:

Maximum of 12

1.5 Fire Extinguisher

Objective:

- Identify possible fire hazards in the workplace
- List control measures to be put in place
- Know and understand the uses of the various types of fire extinguishers
- Select the correct type of fire extinguisher for the task
- Effective use of extinguisher

Programme:

- Course Introduction and Legislation
- Fire Triangle
- Chemistry of Fire
- Dangers and Consequences of Fire
- Precautions
- Fire Extinguishers (different types)
- Practical Demonstration of Fire Extinguishers using clean burn technology.

Who Should Attend:

All employees, supervisors and managers.

Pre-Course Requirements:

None

Assessment / Certification

Full certification of attendance will be provided on successful completion of the course.

Duration:

4 hours

Participation:

Maximum of 12

1.6 Fire Warden

Course Details:

This one-day Fire Wardens training course trains participants to deal with fire on an emergency basis. It emphasises the dangers of fire, the importance of prevention, and the necessity of urgent action when fire breaks out. The course has been tailored to meet the requirements of both the 1981 Fire Services Act and Regulation 9 of the SHW at Work Act, 2005.

Objective:

On completion of this course participants will be able to:

- List their duties as fire wardens
- Describe the chemistry of fire
- Identify fire hazards in the workplace
- Assist in the management of evacuation procedures and drills

Programme:

- Course introduction and objectives
- Theory of fire and fire extinction
- Chemistry of fire
- Practical demonstrations of fire hazards
- Spread of fire
- Smoke behaviour
- Classification of fires
- Fire prevention evacuation procedures
- How to make evacuation realistic
- Duties of a Fire Warden
- End of course discussion and review

Who Should Attend:

Appointed fire wardens/fire marshals from all types of organisations.

Pre-Course Requirements

- Fire extinguishers can either be supplied by you or hired through Safecon at an extra fee.
- Please note that the use of fire extinguishers during this training requires a wide-open space where a practical demonstration can take place safely.



Assessment / Certification

Safecon Certificate of Awareness in Fire Warden Duties

Duration:

1 Day

Participation:

Maximum of 12

1.7 Emergency Response Team (ERT)

Course Details:

Safecon carries out training of the Emergency Response Teams of these organisations to deal with both minor and serious emergency situations. The situations can include general fires, as well as more specific events such as chemical spill, confined space rescues, explosions, life rescue situations, search and rescue, rescue from height, etc. Separate course programmes are available for detailed modules such as confined space, chemical handling/chemical spill and breathing apparatus.

Objective:

The aim of this course is to train members of an Emergency Response Team (ERT) and ERT Team Leader to a level of competency so they may deal with and manage both minor and serious emergency situation.

Programme:

- Course Introduction
- Overview of relevant legislation
- Cause and cost of fires
- Understanding fires:
 - o Fire classification
 - o Physics and chemistry of fires
 - o Development and spread of fire
- Introduction to breathing apparatus including basic search and rescue
- Experience hot fire and smoke filled buildings
- Fire Behavior demonstration (Back draft and Flashover)
- Fire extinguisher practical's using simulated gas fires
- Fire hose drills followed by practical use on simulated gas fires.
- Responding to and dealing with chemical spill (practical exercise)
- Confined Space rescue (practical exercise using tripod)
- Course De-brief

Who Should Attend:

Emergency Response Team - ERT team members and ERT team leaders.

Pre-Course Requirements

None



Assessment / Certification

Safecon Certificate of Awareness in Fire Warden Duties

Duration:

1 Day

Participation:

Maximum of 12

1.8 Basic Fire Safety

Course Details:

This half day course is designed to raise awareness of fire hazards and how to act safely in the event of an emergency fire situation.

Objective:

On completion of this course participants will be able to:

- Describe the chemistry of fire
- Identify fire hazards in the workplace
- Use and maintain portable fire extinguishers and hydrants
- Test evacuation procedures

Programme:

- Introduction
- Means of summoning the fire brigade
- Course Objectives
- Action on hearing the fire alarm
- Causes/Costs of fire
- Evacuation procedures
- Fire Safety Legislation (Overview)
- Tackling the fire
- Understanding Fire
- Role of the fire warden
- Physics and Chemistry of fire
- Assisting the fire brigade
- Development and spread of fire
- Course Review and Close
- Action in the event of fire
- A practical demonstration of fire extinguishers
- Means of raising alarm

Who Should Attend:

This course is suitable for anyone who is required to enhance their fire safety knowledge.

Pre-Course Requirements

- Fire extinguishers can either be supplied by you or hired through Safecon at an extra fee.
- Please note that the use of fire extinguishers during this training requires a wide-open space where a practical demonstration can take place safely.



Assessment / Certification

Safecon Certificate of Awareness in Basic Fire Safety

Duration:

4 Hours

Participation:

Maximum of 12

1.9 Fire Warden

Course Details:

This one-day Fire Wardens training course trains participants to deal with fire on an emergency basis. It emphasises the dangers of fire, the importance of prevention, and the necessity of urgent action when fire breaks out. The course has been tailored to meet the requirements of both the 1981 Fire Services Act and Regulation 9 of the SHW at Work Act, 2005.

Objective:

On completion of this course participants will be able to:

- List their duties as fire wardens
- Describe the chemistry of fire
- Identify fire hazards in the workplace
- Assist in the management of evacuation procedures and drills

Programme:

- Course introduction and objectives
- Theory of fire and fire extinction
- Chemistry of fire
- Practical demonstrations of fire hazards
- Spread of fire
- Smoke behaviour
- Classification of fires
- Fire prevention evacuation procedures
- How to make evacuation realistic
- Duties of a Fire Warden
- End of course discussion and review

Who Should Attend:

Appointed fire wardens/fire marshals from all types of organisations.

Pre-Course Requirements

- Fire extinguishers can either be supplied by you or hired through Safecon at an extra fee.
- Please note that the use of fire extinguishers during this training requires a wide-open space where a practical demonstration can take place safely.



Assessment / Certification

Full certification of attendance will be provided on successful completion of the course.

Duration:

2 days

Participation:

Maximum of 12

1.10 Confined Space with Escape and BA

Course Details:

This course, which meets the requirements of the HSA Code of Practice for Working in Confined Spaces, 2001, to identify and understand the nature, hazards and risks associated with working in confined spaces.

Objective:

To provide the participant with the knowledge and skills to meet the requirements of confined space rescue including the wearing of Compressed Air Breathing Apparatus (CABA).

Programme:

- Acts, Standards and Regulations
- Procedures for entry into confined spaces
- Dangers of entrapment and / or engulfment
- Isolation and de-energisation, lockout / tagout
- Rescue techniques lowering and raising stretchers
- ERT responsibilities and Management's position
- Site requirements and Emergency Plans
- First response actions and considerations
- Rescue priorities
- Safety considerations and risk identification
- Atmospheric monitoring
- Equipment theory and safety checks
- Breathing apparatus
- Expanded practical drills
- Patient handling techniques
- Rescue hauling systems

Who Should Attend:

Those who will be required work in Confined Spaces or participate in Emergency & Rescue Teams and those working where hazardous confined spaces occur but who need to avoid such places/situations.

Pre-Course Requirements

None.

Assessment / Certification

Certificate of Attendance

Duration:

1 Day

Participation:

Maximum of 10

1.11 Confined Space with Escape and Full BA

Course Details:

This training, which meets the requirements of the HSA Code of Practice for Working in Confined Spaces, 2001, to identify and understand the nature, hazards and risks associated with working in confined spaces.

Objective:

To provide delegates with a thorough understanding of confined spaces, the associated legislation, approved code of practice (ACOP), dangers associated with confined spaces and the ability to enter, work and leave them safely by horizontal and/or vertical entry

Programme:

- Acts, Standards and Regulations
- Procedures for entry into confined spaces
- Dangers of entrapment and / or engulfment
- Isolation and de-energisation, lockout / tagout
- Rescue techniques lowering and raising stretchers
- ERT responsibilities and Management's position
- Site requirements and Emergency Plans
- First response actions and considerations
- Rescue priorities
- Safety considerations and risk identification
- Atmospheric monitoring
- Equipment theory and safety checks
- Breathing apparatus
- Expanded practical drills
- Patient handling techniques
- Rescue hauling systems

Who Should Attend:

This programme is designed for Managers, Supervisors and Operatives who may need to enter a confined space with full working breathing apparatus to conduct a variety of work activities that include; maintenance and cleansing operations, building and refurbishment work, routine inspections, CCTV operations, flow monitoring and surveys..

Pre-Course Requirements

None.

Assessment / Certification

Full certification of attendance will be provided on successful completion of the course.

Duration:

2 Days

Participation:

Maximum of 10