



## Techniques for managing major hazards

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### Background

Following well-publicised major incidents, most regulatory bodies have introduced legal standards to be met by organisations operating major hazard processes. These standards have to be met before a licence is granted for the plant to operate. Most of these standards require an initial 'safety case' to be prepared to demonstrate that there are processes in place to identify potential hazards, assess the associated risks and implement and control these risks.

Owing to the potential for catastrophe should an incident occur at such a plant, the level to which the assessment needs to be performed is far greater than for normal activities.

The aim of this programme is, by means of tuition and practical exercises, to familiarise the participants with the techniques available to carry out an appropriate analysis.

### OBJECTIVES

On completion of the programme, attendees will:

- Understand the range of process hazards addressed by relevant standards.
- Have a knowledge of the requirements of the following standards:
  - Control of Major Accident Hazard (COMAH) Regulations.
  - OSHA Process Safety Management Standard
  - EU Seveso II Directive.
  - US EPA Risk Management Programs.
- Be able to participate in techniques of hazard identification & risk evaluation, including:
  - Hazard & Operability (HAZOP) Studies.
  - Failure Mode & Effect Analysis (FMEA).
  - Fault Tree Analysis.
  - Event Tree Analysis.
- Hazard Indices.

### TOPICS

- Introduction and background to process safety management.
- Process safety information.
- Process hazard analysis.
- Operating procedures.
- Mechanical integrity.
- Pre-Start-Up Safety Reviews.
- Incident investigation.
- Emergency planning.
- Process safety audits – Scope.
- Audit process and techniques.
- The audit report.
- Case study – group exercise.

### DURATION

This is a five day course.

### COST

As a public course: £1,095 + VAT per delegate

As an in-house course: Please contact Cardinus for a quote.