

Short Courses for Industry

Process Plant Reliability and Maintainability



Time and money are wasted by the ineffective running of process plants. This four-day course gives you the toolbox you need to help you make sure your plant is reliable, available and efficiently maintained.

Designed for people employed in industry, it is of particular interest for those with responsibility for safety. It is also suitable for people involved in risk assessment, managers, safety professionals, shift supervisors, process engineers, and process chemists.

The course

This four-day short course is one of a number run by the Department of Chemical and Process Engineering. You will be trained by experts from industry, specialists in health and safety training and staff from the University of Sheffield.

The course is a mixture of lectures and multi-media presentations as well as interactive workshops and real-life case-studies.

Fees

The cost of this four-day course is £1000 per person.

Venue

The course takes place in Mappin Hall at the University of Sheffield

Date

Course Content

- **Availability** — determine availability requirements and translate them into specific needs for reliability and maintainability
- **Reliability block diagrams**
- **Reliability, Availability and Maintainability (RAM) improvement** — improve the performance of existing designs to reduce costs and increase efficiency
- **RAM requirements** — basic RAM requirements and how to communicate them both internally and to suppliers
- **Tools that can be used to improve RAM** — Fault Tree Analysis (FTA), Failure Modes and Effects Analysis (FMEA)
- **Failure distributions** — the most common failure distributions and when and how they are used
- **How to analyse and interpret failure data**
- **Maintainability** — introduces maintainability and its various measures.
- **Fault detection & failure location** — how systems are designed so that faults can be identified and failures located as accurately and as quickly as possible.



The University of Sheffield

Department of Chemical and Process Engineering
Engineering from Molecules



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- Please register me for the above short course on

_____ (date)

The fee includes refreshments, course lecture notes and hand-outs.

- Please send details of future course dates

Name: _____

Job Title: _____

Company/Organisation: _____

Address: _____

Country: _____

Tel: _____

Fax: _____

E-mail: _____

Please indicate if you have any special needs or dietary requirements:

Please tick as appropriate:

- I enclose a cheque for £1000 (payable to "University of Sheffield")
- Please invoice me for £1000 prior to the course
(please supply purchase order number: _____)
- Please send me details of other four-day courses run by
Department of Chemical and Process Engineering
- Please send me details of the MSc(Eng) "Process Safety and Loss Prevention"

Send this form to:

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