



## Should I worry about functional safety management?

How would you answer the following questions?

- Does my business involve the risk of harm or damage associated with chemical processes, fuel fired heaters or with hazardous machinery?
- Do we rely on automated safety systems to reduce the risks associated with the hazards?
- Am I accountable for the effectiveness of automated safety systems in some way, and do my decisions affect other people's safety?
- How can I demonstrate that I have done enough to fulfil my duty of care?

If you answer 'yes' to the first three questions and are not completely sure about the last question then this course will be relevant to you.

# An introductory course in managing functional safety



## Overview

Functional safety is about applying automated safety functions to implement risk reduction for hazardous scenarios.

In practice most problems in achieving functional safety are not technical, they stem from uncertainty in roles, responsibilities and interfaces within and between organisations.

Functional safety needs good management just like any other engineering activity. Imagine a project without project management.

Teams working on functional safety need to have a clear understanding of their responsibilities and objectives. They need simple, efficient and robust work processes. This course provides the basic knowledge and understanding that leaders need in order to be effective in managing functional safety.

## Objective

The ultimate objective of this course is to enable managers to demonstrate due diligence in their duty of care. This means that they need to show that they have taken reasonable steps in applying appropriate standards and practices in managing hazards in the workplace.

## Half-day or full-day course option

This one-day course is structured as two separate half-day courses. The first half is a stand-alone four hour introduction into what is meant by 'functional safety', why it might be necessary, and the vital role of managers in achieving safety. The second half of the course concentrates on how effective risk reduction can be reliably achieved by applying functional safety.

## Target audience

The course is designed for professional engineers, managers and team leaders who rely in some way on automated safety systems to reduce the risks associated with process hazards.

Typical applications include automated emergency shutdown of chemical processes, fuel fired heaters or of hazardous machinery.

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## Course cost and schedule

The cost for each candidate on the half day course is \$450 +GST, and the cost for the full day course \$900 + GST.

The course schedule is available at <http://www.iesystems.com.au/training/>

Private courses can be presented in house at a reduced cost for classes of more than five students.

Contact [training@iesystems.com.au](mailto:training@iesystems.com.au) to register or for further details.

## Presenter

Mirek Generowicz is the Engineering Manager at I&E Systems, a company that specialises in control and safeguarding systems for the process industries. He first started working with functional safety systems in 1986. Mirek has worked in engineering management roles since 1992, focusing particularly on design integrity and quality management.

Mirek specialises in independent assessment and audit of functional safety. He has carried out more than 35 functional safety audits and/or assessments for a wide variety of automated safety systems around the world, including some of the largest LNG plants in the world. He is a chartered professional engineer and is accredited by TÜV Rheinland as a Functional Safety Senior Expert.

## I&E Systems

I&E Systems has specialised in engineering functional safety systems for process safeguarding since its inception in 1991. We have a thorough understanding of IEC 61508 and IEC 61511 and we apply these standards in a simple and effective manner.

I&E Systems was the first engineering consultancy in the world to achieve TÜV Rheinland FSM certification for functional safety management in safety related systems integration.

