



# IMPLEMENTING SAFETY IN DESIGN

Course Duration: One Day

## Target audience

Design engineers, architects, project managers, design managers, engineering consultants, risk managers and procurement/contracts personnel. This course is of significant benefit to contractors involved in the construction industry, in order to know what information designers should be providing and their obligations to ask for any further information they need.

## Course overview

A focus on how to practically implement Safety in Design (SiD) throughout the end-to-end engineering 'lifecycle' and the importance of systematic approaches to the implementation of safe design techniques.

The tools, practices and techniques discussed will provide the means to meet the duties of designers and obligations under Work Health and Safety Legislation (harmonised, VIC and WA).

## Course benefits

Provides participants with the tools and understanding to effectively identify and manage hazards throughout the lifecycle of asset(s) (or systems, plant, structures, components, places of work) such as they are safe as reasonably practicable to build, commission, operate, maintain and demolish.

## Course topics

- Defining Safety in Design
- Drivers to implement Safety in Design
- Relevant legislation, standards, codes and guides
- Legislation requirements and their relevance to design and construction projects
- Defining related terms such as "reasonably practicable", "ALARP" and "SFAIRP", and dispelling confusion between them
- Understanding good practice and knowing what might be "reasonably practicable" and "grossly disproportionate" means to address hazards

- The engineering and design tools, practices and techniques that give rise to safer designs
- Case studies and exercises to illustrate the practical applications and benefits of Safety in Design

## Learning outcomes

- Understand what is Safety in Design and learn when it is applicable and how it integrates with the engineering and design lifecycle
- Understand how Safety in Design contributes to overall risk reduction and the benefits of it, especially if it is considered from early in the engineering and design lifecycle
- Understand what practices are required to identify appropriate means to address hazards throughout the engineering and design lifecycle and minimise the likelihood of work-place incidents, injuries and fatalities
- Understand how to use the tools, practices and techniques that give rise to safer outcomes, noting that most of the activities to achieve and demonstrate safe outcomes can be straightforward to execute and document.
- How to source the relevant legislation, standards, codes and guides
- How to run an effective Safety in Design review

## Learning method

Throughout the course, participants will be exposed to a series of discussion points and learning activities that apply theory to real-world situations. These activities, along with course tools and templates, support the transfer of learning to the workplace.

Activities may include but are not limited to: work simulations, group projects, problem solving, case studies, peer-to-peer learning and facilitated discussions to demonstrate the practical application and benefits of Safety in Design.

## Take home tools

Workbooks and handouts.