



# ENGINEERING EDUCATION AUSTRALIA

RELEVANT / FLEXIBLE / TRUSTED



## ASSET MANAGEMENT FOR ENGINEERING TEAMS

Course Duration: Two Days

### Target audience

Engineering, asset planning and asset delivery team members from Senior Supervisor to Senior Manager who are involved in or have direct asset related lifecycle processes.

### Course overview

Effective management of physical assets is essential to assure required levels of availability and reliability are reached while delivering value over their life. Here, insight is provided into the role of engineering teams over that life. Topics covered include: defining system concepts, designing solutions to achieve business value, building and installing quality assets, defining and delivering continuously improving operations and maintenance capabilities that deliver value.

This course covers ISO 55000 and 55001, providing insight into asset management and asset management system requirements through key models and processes. Areas described in detail include: risk management, maintenance decision making, systems engineering, and configuration management principles. This integrated suite of competencies is sufficient in developing the strategic asset management plans necessary to assure business objectives.

### Course benefits

Be able to take an active leadership role in establishing sound asset management capability.

The knowledge obtained from this course is asset and industry agnostic. It is therefore valuable to any organisation whose business is dependent on assets achieving their business intent.

### Course topics

- Asset management overview
- Asset risk management
- Maintenance management

- Optimising preventative maintenance
- Optimising asset renewals
- Managing acquisition
- Assuring asset integrity

### Learning outcomes

- Set asset management objectives, policies and models
- Understand the asset lifecycle phases and their integration
- Align asset management plan requirements with business objectives
- Define an asset management system comprising models, processes, roles and competencies
- Describe maintenance management planning and information processes
- Select and apply risk management standards, techniques and reliability concepts
- Determine routine maintenance processes, decisions, schedules and tasks
- Apply systems engineering techniques using ISO 15288:2015 life cycle processes as a guide
- Select configuration management processes of asset identification, change, auditing
- Assure asset integrity to achieve safety, performance and cost imperatives of the organisation

### Learning method

Throughout the course, learners will be challenged through a series of learning activities that apply theory to real work 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.

### Take home tools

Post-course reviews and reinforcement through a flash drive with around 240mb of supporting information.