

Asset Management Education & Training

Course ref	AM06
Course title	Asset Management Professional MasterClass
Duration	25 days (5 x 5 days)
Class Size	16
Overview	The programme modules introduce the student (senior managers, asset managers, senior engineers, asset planners, trainee asset management team staff etc), to the key principles, methods and tools of asset management and their direction, world-wide use, best in class practices, benefits, assessment of current ability and roadmapping a future with identified benefits and actions, tools, techniques, organisation and enablers. TWPL offers a unique training programme in asset management, taught by real-world practitioners and linked to a range of further education and professional development opportunities.
Objective	To cover every aspect of asset management with world-class trainers who relate theory to practical application, with role-play exercises using the tools and techniques to embed the learning.
Content	TWPL recommends that each module is delivered in the order set out in this document, delivered over 5 months (1 module per month, with time for associated coursework if required).

Module 1: Asset Management Fundamental Principles

- What is asset management?
- What is PAS 55?
- Asset management policy strategy and objectives
- Business skills for technical people
- Competency development for asset management
- Leadership, motivation and teamworking
- Organisation development and change for asset management
- Health, safety, reputation and asset management
- Asset management processes
- Performance monitoring and management
- Business criticality
- Asset management decisions
- Life cycle planning and costing

Module 2: Essential Methods

- Asset management methods and tools
- Benchmarking, baselines and business excellence models
- Competence, training and skills development
- Removing the conflicts in Key Performance Indicators
- Cost/risk/performance optimisation techniques
- Integration and implementation (making it happen!)

If you require more information:

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Module 3: Risk Analysis and Reliability Engineering

- Introduction to Risk Management
- SWIFT - structured what if questioning techniques
- HAZOP- hazard and operability study
- Critical task analysis
- Fault tree and event tree analysis
- Risk control techniques
- Introduction to TPM
- Data analysis
- Cost/risk evaluation of strategic slow moving spares
- Risk-based inspection and failure finding and condition monitoring
- The business of maintenance

Module 4: Life Cycle Costing

- The business, its capital assets and life cycle costing
- Long-term costs decisions about physical assets
- Principles and practice of life cycle costing
- The difficulties and limitations of LCC
- Application of LCC in design, purchase, maintenance and replacement
- A standardised approach to using LCC
- LCC analysis tools
- The human side
- The systems and management sides LCC

Module 5: Strategic Management

- Integration and implementation
- Change planning and transition management
- Mission, visions, strategy, values and plans
- Asset whole life plans - development and usage
- Asset management role-play exercise (3 days)

Role-play Exercise:

The Strategic Management topics will be covered in the classroom during the first two days and they are then followed by a 3-day Asset Management Role-play Exercise (where small teams are faced with a range of short- and long-term asset management problems). From the students' backgrounds and functional specialisms, the lecturers will select or create asset management teams with the relevant mix of skills to enable students to work as a multi-disciplinary team on an asset problem. Each such team will be given the same initial problem to tackle, but their subsequent progress and further challenges will depend on their actions and decisions.

They have 6x ½-day sessions, and as much of their own/evening time as they need to handle the exercise. Each session is called a 'Step', and for each Step there are a number of inputs (given, purchased or created by the previous Steps) and expected outputs. As in a real business, some information costs money, other information is free. Each team will need at least one computer, loaded with Microsoft Office software and a number of given 'templates' or analysis aids (e.g. business plan structure, risk and opportunity ranking guidance, project evaluation tool). If they wish to research additional information from the Internet, use other experts or research libraries they are free to do so but, as in any business, there are tight time pressures; no overruns or delayed outputs will be considered.

Each team will be marked on their presentation that is part of Step 6. Time allowed for presentations is strictly controlled. If a team has not finished their presentation within their time limit, they will be told to stop and conclusions drawn on what they have delivered up to that point. They may be asked questions by the 'Directors' (lecturer plus any senior managers who wish to be involved) appointed to review and mark the presentations. After each presentation, such Directors will give feedback/first impressions, positive and negative.

Benefit	Well-grounded immersion in asset management with an ability to apply the techniques immediately.
Audience	This course is applicable to middle/asset managers.
Pre-requisites	Although no pre-qualification is required, a degree-level or HND qualification is recommended.
Cross- references	See TWPL courses AM04 and AM07