

# Asset Management Education & Training

<b>Course ref</b>	AM06
<b>Course title</b>	Asset Management Professional MasterClass
<b>Duration</b>	25 days (5 x 5 days)
<b>Class Size</b>	16
<b>Overview</b>	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.
<b>Objective</b>	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.
<b>Content</b>	<p><b>Asset management concepts and awareness</b></p> <ul style="list-style-type: none"><li>• What is asset management?</li><li>• Current AM business models and status</li><li>• British Standard Institution's PAS 55: specification for the optimisation of physical assets</li><li>• Other countries and industries: trends to formalise asset management</li></ul> <p><b>AM key processes and enablers</b></p> <ul style="list-style-type: none"><li>• Asset management processes</li><li>• Vision values and leadership</li><li>• People issues in asset management</li><li>• Stakeholder issues in asset management</li><li>• Asset management decision making</li><li>• The project life cycle</li><li>• Asset investment and life cycle costing</li><li>• Dealing with existing assets</li><li>• Criticality analysis</li><li>• Performance monitoring and balanced scorecards</li><li>• Designing and implementing asset management KPIs</li><li>• Total productive maintenance</li></ul> <p><b>Problem-solving and continuous improvement</b></p> <ul style="list-style-type: none"><li>• Asset damage control</li><li>• Incident reporting</li><li>• Matrix analysis</li><li>• General cause programmes</li><li>• Engineering risk analysis</li><li>• Reliability centred maintenance</li><li>• Criticality for operational reliability</li><li>• APT/MACRO risk-based decisions</li><li>• Cost/risk optimisation</li><li>• Total quality management techniques</li></ul>



THE  
WOODHOUSE PARTNERSHIP

**If you require more information:**

Phone: + 44 (0)1635 298800

Email: [enquiries@twpl.com](mailto:enquiries@twpl.com)

[www.twpl.com](http://www.twpl.com)

## Content contd

- Continuous improvement
- Learning organisations
- Operational improvements
- Technical limits and standards
- Real time process control
- Benchmarking

### **Risk and reliability management**

- Nature of risk
- Risk and reliability management
- Structured 'what if' questioning techniques
- Risk management; integrated and holistic
- Risk-based maintenance
- Criticality task analysis
- Failure mode and effect analysis
- Root cause analysis
- Fault tree analysis
- Event tree analysis
- Risk control techniques
- Cost/risk evaluation of inspection decisions
- The business of maintenance
- Instrument protective function
- Cost/risk evaluation of spares

### **Data, information and statistics**

- Data and statistics
- Managing information
- Managing information quality
- Information retrieval
- Information and maintenance management and planning systems

### **Organisation, planning and strategies**

- Designing an asset management organisation
- Designing and implementing asset management KPIs
- EFQM
- Business process mapping
- IDEF process mapping
- Capital project evaluation/prioritisation
- Maintenance activities, what, when, why
- Best operational practices
- Designing an asset management plan
- Communications strategies and influence
- Change and transition
- Asset management case study

### **Safety and environment management**

- Safety and environmental management
- Promoting SHE culture
- SHE law
- Accident investigation
- Task risk assessment
- Principles of occupational health
- Environmental management
- SHE human factors
- Control of major hazards
- SHE auditing

### **Economic and business skills**

- Business skills for engineers
- Economics and industry sector economics
- Financial and corporate risk management

### **Engineering and material science**

- Corrosion, erosion, wear and fatigue
- Fracture mechanics

## 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