



THE  
WOODHOUSE PARTNERSHIP

# ASSET MANAGEMENT ACADEMY

Course ref	AM06
Course title	Asset management 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	<p>TWPL recommends that each module is delivered in the order set out in this document, delivered over five months (one module per month, with time for associated coursework if required).</p> <p><b>Module 1: Whole Life Asset Management</b></p> <ul style="list-style-type: none"><li>• What is asset management?</li><li>• What is PAS 55?</li><li>• Asset management policy strategy and objectives</li><li>• Business skills</li><li>• Competency development for asset management</li><li>• Leadership, motivation and team working</li><li>• Organisation development and change for asset management</li><li>• Health, safety, reputation and asset management</li><li>• Asset management processes</li><li>• Performance monitoring and management</li><li>• Business criticality</li><li>• Asset management decisions</li><li>• Life cycle planning and costing</li></ul> <p><b>Module 2: Practice of Asset Management</b></p> <ul style="list-style-type: none"><li>• Asset management methods and tools</li><li>• Benchmarking, baselines and business excellence models</li><li>• Competence, training and skills development</li><li>• Removing the conflicts in Key Performance Indicators</li><li>• Cost/risk/performance optimization techniques</li><li>• Integration and implementation (making it happen!)</li></ul>

### Module 3: Whole Life Performance

- The business, its capital assets and life cycle costing
- Whole life value and stakeholder management
- 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 - value frameworks
- The systems and management sides of LCC

### Module 4: Strategic Asset 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 game (3 days)

Strategic management topics will be covered during the first two days as seminars and they are then followed by a 2-day asset management role-play game (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.

### Module 5: Reliability Management

- Introduction to risk management
- SWIFT (structured what if questioning techniques)
- HAZOP (hazard and operability study)
- Critical task and 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

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