

Asset Management Education & Training

Course ref	AM17
Course title	Total Productive Maintenance (TPM)
Duration	2 days
Class Size	16
Overview	<p>Total Productive Maintenance, which is part of TQM, was developed in Japan some 30 to 40 years ago, to improve the overall effectiveness of assets. It was initially prescriptive in its application, however, effective TPM programmes in the West require customisation.</p> <p>TPM is largely different in nature to RCM, and this course is aimed at finding the elements in TPM that are complementary to RCM, to enable synergy between the two programmes to be developed. Similarly, TPM can complement RCA programmes.</p>
Objective	<p>To improve the OEE (Overall Equipment Effectiveness) of assets and involve the workforce in continuous improvement.</p> <ul style="list-style-type: none">• Autonomous maintenance and how to structure centralised maintenance support services and local responsibility for maintenance at departmental level• TPM activities and programmes:<ul style="list-style-type: none">o Activity boardso Improvement projectso One point lessonso Root Cause Analysis, the 5 Ys and the 5 Mso CIL: Clean, Inspect and Lubricate and the 5 Sso Zero defectso The continuous improvement cycle
Content	<ul style="list-style-type: none">• KPIs: Key Performance Indicators<ul style="list-style-type: none">o Overall Equipment Effectiveness• TPM maintenance strategy and the integration of RCM in maintenance strategy development• Extending FMEA analysis to include 'causes' of failure in addition to 'modes' of failure• Life cycle costing• Strategies to stop recurrence of failure• RCA logic and the integration of the 5 Ys and 5 Ss• TPM and Predictive Maintenance<ul style="list-style-type: none">o Condition inspectionso Condition monitoringo An introduction to Asset Management



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Benefit	Cost-effective maintenance strategy and selective introduction of projects, controls and remedies to improve the OEE.
Audience	This course is applicable to: <ul style="list-style-type: none">• Operational staff• Maintainers• Technicians• RCM facilitators
Pre-requisites	Although no pre-qualification is required, a degree-level or HND qualification is recommended.
Cross references	See TWPL courses AM14, AM18 and AM20