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COURSE BROCHURE

Maintenance, Reliability & Asset Management Maturity Training Course

25 – 29 July 2027
Cairo

Maintenance, Reliability & Asset Management Maturity Training Course

Ref: 1291_48481 **Date:** 25 – 29 July 2027 **Location:** Cairo **Fees:** 4000 GBP

Maintenance, Reliability & Asset Management Maturity is a 1-week training course for maintenance managers, reliability engineers and asset managers who need to score current practice and turn the gaps into a staged asset improvement roadmap. Plants and utilities now face ageing equipment, thinner skilled crews and owners who expect every maintenance hour to protect production and safety. The course is led by Jupiter Prime Training.

Why Maintenance, Reliability & Asset Management Maturity Matters Now

Three forces shape the subject today: owners who judge maintenance by uptime and lifecycle cost rather than by work orders closed, condition monitoring sensors that produce more signals than crews can act on, and the retirement of experienced technicians whose judgement was never written down. A site with mature practice selects strategies by criticality, learns from each failure and spends where risk is highest. The course rests on ISO 55001 for asset management systems and EN 13306 for maintenance terminology.

Who Gains Most from Maintenance, Reliability & Asset Management Maturity

- Leaders responsible for maintenance strategy, budgets and crew capability across a site
- Engineers accountable for failure elimination and equipment reliability targets
- Asset owners who justify renewal, overhaul and replacement spending
- Planning leads who control backlog, scheduling discipline and CMMS records
- Integrity and inspection leads who set inspection routes and condition checks

A site leadership group gains most when its maintenance, reliability and asset owners attend together and score their own practice with one shared maturity scale.

Maintenance, Reliability & Asset Management Maturity Capabilities

Participants learn to rate each maintenance practice area and link the scores to failure history and cost.

- Assess current practice against a five-level maturity scale — site leadership investment priorities
- Rank equipment by asset criticality — strategy selection and spares holding
- Apply reliability-centred maintenance logic to dominant failure modes — preventive and predictive task choice
- Calculate lifecycle cost for repair, overhaul or replace options — capital planning boards
- Design a KPI set linking leading and lagging indicators — operations and finance partners
- Build a staged asset improvement roadmap — executive sponsors and crew supervisors

Key Maintenance, Reliability & Asset Management Maturity Terms

- Maturity Scale — a staged description of practice, from reactive to optimised, used to score each maintenance and asset area consistently.
- Asset Criticality — a ranking of equipment by the consequence and likelihood of its failure for safety, production and cost.
- Reliability-Centred Maintenance RCM — a structured method that selects maintenance tasks from the functions, failure modes and consequences of each asset.
- Lifecycle Cost — the total cost of owning an asset from acquisition through operation and maintenance to disposal.
- Mean Time Between Failures MTBF — the average running time between failures of a repairable item, used to track reliability trends.
- Schedule Compliance — the share of planned maintenance jobs completed in the week they were scheduled, a measure of work discipline.

Maintenance, Reliability & Asset Management Maturity Day by Day

Day 1: Maturity Context and Asset Value

- ISO 55001 Asset Management System Elements — Scope of the Maturity Review
- Five-Level Maturity Scale — Where the Site Stands Today
- Asset Value and Risk Line of Sight — Linking Maintenance to Owner Goals
- EN 13306 Maintenance Terminology — Common Language Across Crews
- Evidence Gathering Interviews and Walkdowns — Scoring With Facts

Day 2: Criticality and Strategy Selection

- Asset Criticality Matrix — Ranking Equipment by Consequence
- Run-to-Failure, Preventive and Predictive Options — Strategy Choice per Class
- Reliability-Centred Maintenance Decision Logic — Task Selection for Failure Modes
- Condition Monitoring Techniques Overview — Vibration, Oil and Thermal Signals
- Spares Criticality and Stocking Rules — Inventory Held Against Risk

Day 3: Failure Data and Reliability Measures

- Failure Coding in the CMMS — Data Quality for Decisions
- MTBF and MTTR Trend Analysis — Spotting Bad Actor Equipment
- Root Cause Analysis With Five Whys and Fault Trees — Eliminating Repeat Failures
- Weibull Plots for Failure Patterns — Wear-Out or Random Behaviour
- Lifecycle Cost Model — Repair, Overhaul or Replace Choices

Day 4: Work Management and Performance Indicators

- Planning and Scheduling Cycle — Backlog and Crew Capacity
- Schedule Compliance and Wrench Time — Measuring Work Discipline
- Leading and Lagging KPI Set — Balanced Maintenance Scorecard
- Maintenance Budget Drivers — Cost per Asset and Per Unit Output
- Skills Matrix for Technicians — Retaining Craft Knowledge

Day 5: Practising the Asset Improvement Roadmap

- Scoring a Case Site on the Maturity Scale — Gap Profile per Practice Area
- Criticality and RCM Findings Applied — Priority Equipment Actions
- KPI Targets From Failure Data — Measurable Milestones
- Business Case From Lifecycle Cost — Funding the First Stage
- Staged Asset Improvement Roadmap — Owners, Milestones and Review Points

Applying Maintenance, Reliability & Asset Management Maturity After the Course

- Lead a maturity scoring session with site supervisors using the five-level scale and walkdown evidence.
- Run a criticality ranking of the top fifty assets and test current preventive tasks against RCM logic.

Maintenance, Reliability & Asset Management Maturity Questions FAQ

What is Maintenance, Reliability & Asset Management Maturity and why does it matter now?

It is the measured stage a site has reached in strategy, reliability and asset practice. It matters now because owners expect maintenance spending to be justified by risk and lifecycle cost, while crews shrink and equipment ages.

Which roles gain most from Maintenance, Reliability & Asset Management Maturity?

Maintenance managers, reliability engineers and asset owners gain most. Planning and integrity leads also benefit.

How does Maintenance, Reliability & Asset Management Maturity differ from a general maintenance management course?

It scores practice before prescribing it. A general maintenance management course teaches methods one by one, while this course rates each practice area and links the gaps to failure data and cost.

What do you bring back from Maintenance, Reliability & Asset Management Maturity?

You bring back a scored gap profile of your practice and a staged roadmap. It lists priority equipment, KPI targets and a lifecycle cost case.

Maintenance, Reliability & Asset Management Maturity: The Way Forward

The staged asset improvement roadmap turns a maturity score into funded actions. Its first decision is which practice area to lift first, usually criticality ranking or failure coding. Site leaders, reliability engineers and planners use it in monthly reviews. After the first stage, it is worth rescoring the site to see whether reliability gains have moved the budget conversation from repair cost to asset value.