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COURSE BROCHURE

Maintenance Data Quality and Digital Work Execution Training Course

4 – 8 April 2027
Cairo

Maintenance Data Quality and Digital Work Execution Training Course

Ref: 1363_51031 **Date:** 4 – 8 April 2027 **Location:** Cairo **Fees:** 4000 GBP

Maintenance Data Quality and Digital Work Execution is a 1-week training course for maintenance and reliability leaders that ends with a maintenance data remediation and digital rollout roadmap for one site. Sensors, mobile work orders and predictive tools only pay back when failure codes, asset hierarchies and job histories are trustworthy, and most sites discover the gaps after buying the technology. Jupiter Prime Training runs this Maintenance Data Quality and Digital Work Execution course.

Why Maintenance Data Quality and Digital Work Execution Matters Now

Three forces push data discipline to the top of the maintenance agenda. Technology vendors offer condition sensors, analytics and digital twins, yet each depends on clean equipment records and consistent failure coding. Technicians increasingly receive work on tablets, so poor job plans and missing attributes now slow every shift. Leaders must justify digital spending to finance with evidence, not demonstrations. Sites that fix master data and close-out habits first gain real value from new tools; sites that skip this step collect dashboards nobody trusts. The course uses ISO 55001 asset management and EN 13306 maintenance terminology as its reference language.

Who Gains Most from Maintenance Data Quality and Digital Work Execution

- Maintenance leaders who sponsor CMMS upgrades and mobile work initiatives
- Reliability leads who depend on failure history for strategy decisions
- Planning supervisors responsible for job plans, close-out notes and backlog accuracy
- CMMS administrators who own asset hierarchies, codes and system rules
- Condition monitoring coordinators who link sensor alerts to work orders

Site maintenance leadership groups gain most when several members attend together and agree one data standard.

Maintenance Data Quality and Digital Work Execution Capabilities

Participants learn to measure how good their maintenance records are, fix the gaps that matter and choose digital tools on evidence.

- Assess asset register and failure code quality with sampling audits — reliability and planning leads
- Design failure, cause and action code sets for consistent close-out — technicians and supervisors
- Specify mobile work execution steps, checklists and photo evidence — field crews
- Weigh condition sensors, analytics and digital twin use cases against data readiness — the investment decision
- Build integration rules between sensor alerts and CMMS work orders — system administrators

- Communicate a phased digital rollout roadmap with measurable checkpoints — site leadership and finance

Key Maintenance Data Quality and Digital Work Execution Terms

- Master data — the stable records describing each asset, such as tag, class, location, criticality and attributes, used by every maintenance process.
- Failure code set — a structured list of failure modes, causes and actions technicians select when closing a work order.
- Data completeness — the share of records holding every mandatory field needed for planning or analysis.
- Mobile work execution — receiving, performing and closing work orders on handheld devices at the asset.
- Digital twin — a virtual model of an asset kept current with live and historical data to test scenarios.
- Use case — a specific maintenance decision a digital tool improves, with a named owner and measurable benefit.

Maintenance Data Quality and Digital Work Execution Day by Day

Day 1: Digital Promises and Data Reality

- Digital Maintenance Technology Landscape — Sensors, Analytics and Twins Compared
- Data Dependency Mapping — What Each Tool Needs From Records
- Utility and Manufacturing Rollout Cases — Why Pilots Stall
- ISO 55001 Information Requirements — Linking Data to Asset Decisions
- Stakeholder Expectations From Finance and Operations — Defining Digital Value

Day 2: Measuring Data Quality

- Asset Hierarchy and Tag Audits — Finding Missing and Duplicate Records
- Completeness and Accuracy Sampling — Scoring Critical Data Fields
- Failure History Review — Judging Whether Records Support Analysis
- EN 13306 Terminology Alignment — Standardising Failure Language
- Data Quality Scorecards — Reporting Gaps to Leadership

Day 3: Fixing Records and Close-Out

- Failure, Cause and Action Code Design — Consistent Technician Selections
- Job Plan Templates and Attribute Rules — Reusable Planning Content
- Close-Out Note Standards — Capturing As-Found and As-Left Condition
- Data Ownership and Stewardship Roles — Who Approves Changes
- Bulk Cleansing and Validation Rules — Preventing New Errors

Day 4: Digital Work Execution and Integration

- Mobile Work Order Workflows — Checklists, Photos and Digital Sign-Off
- Condition Sensor Alert Routing — Turning Alarms Into Work Requests
- Predictive Analytics Use Case Selection — Matching Models to Data Readiness
- Digital Twin Scope Choices — Where a Model Adds Decision Value
- CMMS Integration Rules — Interfaces, Ownership and Change Control

Day 5: Practising the Data and Digital Roadmap

- Scoring a Case Site Data Set — Applying Quality Audits
- Drafting Code Sets and Close-Out Rules — Applying Cleansing Methods
- Ranking Digital Use Cases — Applying Readiness Criteria
- Change and Training Plan for Technicians — Securing Field Adoption
- Maintenance Data Remediation and Digital Rollout Roadmap — Completing the Site Plan

Applying Maintenance Data Quality and Digital Work Execution After the Course

- Audit a sample of fifty closed work orders on critical assets and score failure code and note quality.
- Agree a failure code set with supervisors and enforce it as mandatory at close-out.

Maintenance Data Quality and Digital Work Execution Questions FAQ

What is Maintenance Data Quality and Digital Work Execution and why does it matter now?

It is the discipline of making maintenance records trustworthy and running work through digital tools. It matters now because sensors and analytics deliver value only when asset and failure data are accurate.

Which roles gain most from Maintenance Data Quality and Digital Work Execution training?

Maintenance and reliability leaders gain most. Planning supervisors, CMMS administrators and condition monitoring coordinators also benefit.

How does Maintenance Data Quality and Digital Work Execution differ from an AI predictive maintenance course?

It prepares the foundation rather than building models. You audit and fix records, design close-out rules and choose use cases by data readiness.

What do you bring back from Maintenance Data Quality and Digital Work Execution training?

You bring back a data remediation and digital rollout roadmap for your site. It lists data gaps, code standards, priority use cases and phased checkpoints.

Maintenance Data Quality and Digital Work Execution: The Way Forward

The maintenance data remediation and digital rollout roadmap first informs which records to fix before any new digital tool is bought. Maintenance leaders sponsor it, CMMS administrators carry out its data tasks and planners enforce its close-out rules. After the first quarter, rescore data quality to confirm the next rollout phase is ready.