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COURSE BROCHURE

Equipment Walkdown and Maintenance Condition Inspection Training Course

1 – 5 February 2027
Singapore

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Registered in the United Kingdom and Saudi Arabia

Equipment Walkdown and Maintenance Condition Inspection Training Course

Ref: 1286_48319 **Date:** 1 – 5 February 2027 **Location:** Singapore **Fees:** 9300 GBP

Equipment Walkdown and Maintenance Condition Inspection is a 1-week training course for maintenance managers, site inspectors and auditors who need plant equipment checked on foot, on a fixed route and with consistent judgement, and who leave with a site walkdown inspection report with ranked actions. Leaks, loose guards and noisy bearings are often visible weeks before a breakdown, yet many sites have no structured way to catch them. Jupiter Prime Training runs this course in equipment walkdown and maintenance condition inspection.

Why Equipment Walkdown and Maintenance Condition Inspection Matters Now

Leaner operating crews, older plant and rising expectations from site leadership all make early defect detection more valuable. A site that relies on alarms and breakdown calls finds problems only after damage has spread; a site whose operators and technicians walk defined routes, record what they see and raise work requests catches leaks, overheating and wear while repairs are still small. Walkdowns also confirm job scope and hazards before planned work and turnarounds. The course ties walkdown findings to ISO 55001 for asset management systems and to EN 13306 maintenance terminology, so observations become recognised condition data rather than informal notes.

Who Gains Most from Equipment Walkdown and Maintenance Condition Inspection

- Maintenance managers who set up and sustain inspection routes across a plant
- Site inspectors who walk equipment areas and grade the condition they find
- Internal auditors who check whether walkdown findings are recorded and acted on
- Operators and shift technicians who carry out daily rounds on pumps, motors and piping
- Planners who turn walkdown defects into scoped work orders

An operations and maintenance pair from the same unit gains most when attending together, because route ownership, defect grading and work request flow then match on both sides of the shift.

Equipment Walkdown and Maintenance Condition Inspection Capabilities

Participants learn to see equipment with trained eyes, record it the same way every time and turn what they find into planned work.

- Design walkdown routes by area, equipment criticality and frequency — route ownership decisions
- Apply sensory and simple instrument checks for leaks, heat, vibration and noise — early defect detection
- Assess equipment condition with a graded scale and photo evidence — consistent findings across inspectors
- Specify defect tags and work requests that planners can act on — backlog quality
- Test pre-job walkdowns for scope, access and hazards — safe start of planned work
- Build a walkdown inspection report with ranked actions — maintenance manager and area owner

Key Equipment Walkdown and Maintenance Condition Inspection Terms

- Walkdown — a structured physical inspection of plant equipment along a set route to observe and record its condition.
- Inspection Route — an ordered path through an area listing the equipment and checkpoints to be examined on each round.
- Condition Grade — a rating on a fixed scale describing how far an item has deteriorated from its normal state.
- Defect Tag — a visible label placed on equipment to mark a found fault until it is repaired.
- Pre-Job Walkdown — a site visit before planned work to confirm scope, access, isolation points and hazards.
- Work Request — a recorded request to the maintenance function describing a defect, its location and urgency.

Equipment Walkdown and Maintenance Condition Inspection Day by Day

Day 1: Why Walk the Plant

- Walkdown Purpose and Types — Routine Rounds, Pre-Job and Post-Repair Checks
- Hidden Failure Signs — Leaks, Discolouration, Noise and Loose Fixings
- Equipment Criticality With ISO 55001 — Deciding Which Assets Get Routes
- Area Ownership Model — Operators, Technicians and Inspectors on Each Route
- Examples From Process and Utility Plants — Defects Missed Then Found

Day 2: Designing Routes and Checklists

- Route Mapping by Area — Sequence, Access and Safe Walkways
- Checkpoint Lists per Equipment Type — Pumps, Motors, Valves and Piping
- Inspection Frequency Setting — Shift, Daily and Weekly Rounds
- Mobile Data Capture — Photos, Readings and Location Tags
- Route Workload Balancing — Time per Round and Crew Capacity

Day 3: Seeing and Grading Condition

- Sensory Inspection Technique — Look, Listen, Feel and Smell Safely
- Simple Instrument Checks — Infrared Thermometer, Vibration Pen and Stethoscope
- Lubrication and Seal Condition — Levels, Contamination and Weeping
- Condition Grading Scale Under EN 13306 Terms — Normal, Degraded and Failed
- Photo Evidence Standards — Framing, Scale and Before-After Records

Day 4: From Finding to Work Order

- Defect Tagging Practice — Visible Marking Until Repair
- Work Request Quality — Location, Symptom and Urgency Fields
- Priority Ranking of Findings — Safety, Production and Cost Impact
- Pre-Job Walkdown Checklist — Scope, Isolations, Access and Hazards
- Walkdown Compliance Tracking — Missed Rounds and Overdue Defects

Day 5: Practising the Site Walkdown Inspection Report

- Route Design for a Chosen Area — Applying Mapping and Checkpoint Lists
- Simulated Round and Grading — Applying Sensory and Instrument Checks
- Findings Register and Priorities — Applying Tagging and Ranking
- Sustaining the Programme — Ownership, Audits and Refresher Rounds
- Site Walkdown Inspection Report — Completed Findings and Ranked Actions

Applying Equipment Walkdown and Maintenance Condition Inspection After the Course

- Map one inspection route in a critical area with checkpoint lists and walk it with the area operator for two weeks.
- Review open defect tags on site and confirm each has a work request with location, symptom and priority.

Equipment Walkdown and Maintenance Condition Inspection Questions FAQ

What is equipment walkdown and maintenance condition inspection and why does it matter now?

Equipment walkdown and maintenance condition inspection is the structured practice of walking plant routes to spot and record defects early. It matters now because leaner crews and older equipment leave less room for faults found only at breakdown.

Which roles gain most from equipment walkdown and maintenance condition inspection training?

Maintenance managers, site inspectors, internal auditors, operators and planners gain most. They design routes, walk them, check that findings are recorded and turn defects into planned work.

How does equipment walkdown and maintenance condition inspection differ from an environmental site audit course?

Equipment walkdown and maintenance condition inspection looks at the physical condition of pumps, motors, valves and piping. An environmental site audit course checks emissions, effluent, waste and permit records instead.

What do you bring back from equipment walkdown and maintenance condition inspection training?

You bring back a walkdown inspection report for one area of your site, with a designed route, graded findings, tagged defects and a ranked list of actions.

Equipment Walkdown and Maintenance Condition Inspection: The Way Forward

The site walkdown inspection report first informs which defects enter next week's maintenance schedule. Maintenance managers and area owners use it to assign route ownership and track overdue findings. After a month of rounds, revisit route frequency and checkpoints, because early findings usually show which equipment deserves closer watching and which can be checked less often.