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COURSE BROCHURE

# Pre-Startup Audit and Risk Control Training Course

24 – 28 January 2027
Amman

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Registered in the United Kingdom and Saudi Arabia

# Pre-Startup Audit and Risk Control Training Course

**Ref:** 3206_121911 **Date:** 24 – 28 January 2027 **Location:** Amman **Fees:** 3300 GBP

Pre-Startup Audit and Risk Control is a 1-week training course for operations, safety and commissioning leads who check new or modified facilities before first operation and produce a Pre-Startup Audit Report and Go or No-Go Recommendation for the start-up authority. Tighter project schedules and more frequent plant modifications put pressure on that final check. Jupiter Prime Training runs this Pre-Startup Audit and Risk Control course.

## Why Pre-Startup Audit and Risk Control Matters Now

Two groups shape the subject today. Project owners press for early first production, so the audit window shrinks while the number of open items grows. Operating crews inherit equipment, procedures and alarm settings they did not help design. A facility that audits well before start-up hands over with known, ranked residual risks and controls in place; one that rushes the step tends to find missing relief devices, untested trips and untrained operators during the first upset.

## Who Gains Most from Pre-Startup Audit and Risk Control

- Leads who own the start-up sequence and sign the readiness checklist for a unit
- Safety specialists who confirm that hazard study actions are closed and safeguards are in place
- Commissioning leads who manage system handover packs, test records and punch lists
- Maintenance and integrity leads who verify equipment registers, inspection baselines and spare parts
- Training coordinators who confirm operator competence on new or changed equipment

Project and operations groups from one asset gain most when they attend together.

## Pre-Startup Audit and Risk Control Capabilities

Participants learn to turn a crowded handover into an evidence-based start-up decision.

- Design an audit scope and checklist matched to the type of change and its hazards — the start-up authority
- Verify as-built construction against design drawings, data sheets and hazard study actions — engineering sign-off
- Test whether operating, emergency and maintenance procedures are written, approved and practised — operations management
- Assess operator and maintainer competence for the new equipment — the training plan
- Rank punch items by consequence and specify interim risk control measures — the go or no-go decision
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Communicate audit findings and residual risks in a short recommendation — site leadership and asset owners

## Key Pre-Startup Audit and Risk Control Terms

- Pre-startup audit — a structured check that a facility is built, documented and staffed as intended before first operation.
- Punch item — an open defect or incomplete task found during inspection.
- Must-close item — a punch item judged serious enough that start-up cannot proceed until it is fixed.
- Interim risk control measure — a temporary safeguard that reduces risk while a punch item stays open.
- As-built verification — field confirmation that installed equipment matches the approved drawings and specifications.
- Go or no-go decision — the formal authorisation, or refusal, to start the facility based on audit evidence and residual risk.

## Pre-Startup Audit and Risk Control Day by Day

### Day 1: Start-Up Risk and Audit Scope

- Lessons from Start-Up Incidents — Why First Operation Carries Extra Risk
- New Build Versus Modification Triggers — When an Audit Is Required
- Audit Team Composition and Independence — Credible Sign-Off
- Scope and Checklist Design by Change Type — Matching Depth to Hazard
- Handover Packs and Document Registers — Evidence the Audit Will Need

### Day 2: Construction Against Design

- As-Built Drawing and Data Sheet Checks — Confirming Installed Equipment
- Relief Devices, Trips and Interlocks Verification — Protection Layers in Place
- Pressure Test, Loop Check and Function Test Records — Proof of Integrity
- Hazard Study Action Close-Out Review — Design Safeguards Delivered
- Field Walkdown Technique and Sampling — Finding What Documents Miss

### Day 3: Procedures, People and Readiness

- Operating and Emergency Procedure Review — Approved, Accurate and Usable
- Operator Competence and Training Records — Readiness of the Shift Crew
- Maintenance Plans, Spares and Inspection Baselines — Sustaining Integrity from Day One
- Alarm Settings and Control Logic Confirmation — Safe Operating Limits
- Change Records and Temporary Modifications — Traceability of Late Changes

## Day 4: Punch Ranking and Risk Controls

- Punch Item Categories and Ranking Criteria — Must-Close Versus Deferrable
- Consequence and Likelihood Screening of Open Items — Priority for Close-Out
- Interim Risk Control Measures — Restrictions, Monitoring and Extra Checks
- Deferral Approval and Tracking Log — Owners and Due Dates
- Go or No-Go Criteria and Authority — Who Decides and on What Evidence

## Day 5: Practising the Pre-Startup Audit Report and Go or No-Go Recommendation

- Case Facility Document and Walkdown Audit — Applying Design Verification Methods
- Case Procedure and Competence Check — Applying Readiness Methods
- Case Punch List Ranking with Interim Controls — Applying Risk Criteria
- Mock Start-Up Decision Meeting — Testing Findings Under Challenge
- Pre-Startup Audit Report and Go or No-Go Recommendation — Final Version

## Applying Pre-Startup Audit and Risk Control After the Course

- Rebuild the site's pre-startup checklist so its depth follows the type of change.
- Rank the open punch list of a current project into must-close and deferrable items with interim controls for each.

## Pre-Startup Audit and Risk Control Questions FAQ

### What is Pre-Startup Audit and Risk Control and why does it matter now?

Pre-Startup Audit and Risk Control is the structured check that a new or modified facility matches its design, procedures and staffing before first operation. It matters now because shorter schedules and frequent modifications leave more open items at start-up.

### Which roles gain most from Pre-Startup Audit and Risk Control training?

Operations, safety and commissioning leads gain most, especially if you sign readiness checklists or rank punch items.

### How does Pre-Startup Audit and Risk Control differ from a general commissioning course?

It focuses on the final audit and decision. A commissioning course covers testing and handover sequences; this one checks the evidence, ranks what is still open and supports the start-up call.

### What do you bring back from Pre-Startup Audit and Risk Control training?

You bring back a tested audit checklist, a ranked punch list with interim controls and a written start-up recommendation.

## Pre-Startup Audit and Risk Control: The Way Forward

The Pre-Startup Audit Report and Go or No-Go Recommendation first informs whether hazardous materials may be introduced and under which restrictions. The start-up authority signs it, operations applies its controls and the project closes its deferred items. After its first use, revisit the ranking criteria, since they decide how much risk crosses the handover line.