



Configuration Management Training Course: ISO 10007 and EIA-649 Baselines and Change Control



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Introduction:

Configuration management training on ISO 10007 and EIA-649 baselines and change control is a 5-day course for engineering, project controls, document control and asset owner staff, ending with a Configuration Management Plan for a case organisation. Assets drift away from their approved design when configuration items are poorly selected, changes bypass a control board, deviations are never closed and records no longer match what is installed. Nominees already handle drawings, specifications or design changes at work and practise through case studies on change packages, item registers and audit evidence. CoreConcept Training Center delivers this configuration management course.

Course Objectives:

- Select configuration items and build a CI tree with identifiers, revision schemes and owners for an asset or system
- Define functional, allocated and product baselines and the release rules that freeze each one
- Run engineering change requests, change proposals, deviations and waivers through a configuration control board with recorded decisions
- Maintain configuration status accounting records that show the approved and installed state of every item
- Prepare and lead functional and physical configuration audits and close the discrepancies they raise
- Write a Configuration Management Plan aligned with ISO 10007 guidance and EIA-649 principles for a case organisation

Target Audience:

- Engineers responsible for preparing, assessing and implementing design changes on plants, fleets, facilities or systems
 - Project controls staff responsible for change impact on cost, schedule and contract scope
 - Document control staff responsible for drawing and specification revisions, release and distribution
 - Asset owner representatives responsible for keeping operating assets matched to their approved design
 - Quality staff responsible for verifying that delivered products match their released configuration
 - IT and software release staff responsible for versioned system components and their records
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Course Outline:

Day 1: Configuration Management Foundations and Current-State Assessment

- Configuration Management Purpose Across the Asset Life Cycle
- Four CM Functions of Identification, Control, Accounting and Audit
- Configuration Drift Symptoms in Plants, Fleets and IT Estates
- CM Roles for Engineering, Document Control and Owners
- CM Maturity Gap Assessment Against Current Practice

Day 2: ISO 10007, EIA-649 and Configuration Identification

- ISO 10007 Guidance Structure and CM Planning Clauses
- EIA-649 Principles for Product Configuration Information
- Configuration Item Selection Criteria and CI Tree Build
- Functional, Allocated and Product Baseline Definition Rules
- Part Numbering, Document Identifiers and Revision Schemes

Day 3: Configuration Control, Change Boards, Deviations and Waivers

- Engineering Change Request Triage and Classification by Impact
- Engineering Change Proposal Package Content and Effectivity
- Configuration Control Board Charter, Quorum and Decision Records
- Deviation and Waiver Requests With Disposition Criteria
- Change Implementation Tracking and Baseline Re-Release Steps

Day 4: Status Accounting, Configuration Audits and Problem Cases

- Configuration Status Accounting Record Set and Reports
- EIA-836 Data Exchange for Supplier CM Information
- Functional Configuration Audit Evidence and Verification Records
- Physical Configuration Audit Against As-Built Product Data
- Supplier, Software and Field Modification CM Risk Controls

Day 5: Case Study Practice and the Configuration Management Plan

- Case Organisation CI Register and Baseline Set Build
 - Case Change Package Review at a Mock Control Board
 - Case Status Accounting Report and Discrepancy Log
 - Case Audit Checklist for FCA and PCA Readiness
 - Configuration Management Plan Completion and Peer Review
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Skills You Will Gain:

- Configuration Item Selection
- Baseline Definition
- Engineering Change Assessment
- Control Board Facilitation
- Deviation and Waiver Disposition
- Status Accounting Reporting
- Configuration Audit Planning
- CM Plan Writing

Why Attend This Course:

- Deliver a Configuration Management Plan to the engineering manager and asset owner for approval and roll-out
- Judge whether a proposed change, deviation or waiver is complete enough to go to the control board
- Avoid rework, unsafe modifications and failed acceptance caused by records that do not match the installed asset
- Coach engineers, document controllers and project controls staff with the CI register, change package and audit checklist templates

Conclusion:

Back at work, the participant presents the Configuration Management Plan to the engineering manager, the asset owner and the document control lead. Management uses it to confirm which items are under configuration control, who sits on the change board, how deviations and waivers are approved and how status accounting reports reach project controls. After the first full change cycle or audit under the plan, the unit should review change turnaround, open discrepancies and record accuracy against the plan and tighten the rules that fell short.

Frequently Asked Questions FAQ:

What should participants know before configuration management training on ISO 10007 and EIA-649?

Participants should already work with drawings, specifications, design changes or system releases. Familiarity with a document management or engineering data system helps. Anonymised change requests or item lists from their own organisation are useful during the case study day.

How does configuration management training differ from a systems engineering or IT service management course?

Systems engineering courses cover requirements, architecture and verification and treat configuration management as one topic. IT service management courses centre on service operations. This course spends five days on configuration identification, change control, status accounting and audits.

Why do configuration management baselines matter over the life of an asset?

Baselines give a fixed, approved reference for each configuration item. Without them, changes cannot be assessed against a known state, modifications accumulate without records and operators lose certainty about what is installed, which affects safety, maintenance and acceptance.

What do participants take back from configuration management training on baselines and change control?

Participants take back a Configuration Management Plan built for a case organisation, plus templates for a CI register, change package, control board record, status accounting report and audit checklist that they can adapt to their own assets.
