



Construction Design Risk Management and Coordination Course

4 – 8 April 2027
Johannesburg

Construction Design Risk Management and Coordination Course

Ref: 516_140575 **Date:** 4 – 8 April 2027 **Location:** Johannesburg **Fees:** 6000 Euro

Overview

Construction Design Risk Management and Coordination Course is a five-day intermediate course for design managers, architects, engineers, construction managers, project managers, client representatives, contractors, and health and safety professionals. Participants establish roles, organize preconstruction information, identify design hazards, eliminate or reduce risk, coordinate interfaces, engage construction knowledge, control design changes, and prepare residual-risk and handover records. Agile Leaders Training Center presents a jurisdiction-neutral design-risk workflow that produces a Construction Design Risk Management and Coordination Pack.

Who Should Attend

- Design managers, architects, and engineers coordinating construction design decisions
- Construction and project managers contributing buildability and sequencing knowledge
- Client representatives setting design-risk expectations and information requirements
- Contractor and specialist teams contributing methods, temporary works, and interface inputs
- Health and safety professionals facilitating hazard review and residual-risk communication

The course assumes participants contribute to design or construction decisions. It teaches transferable management practices rather than legal advice, country-specific duties, detailed structural design, or routine site safety supervision.

Departments and Industries

The course supports design and delivery teams across built-environment sectors.

- Building, civil, infrastructure, utilities, and industrial construction
- Architecture, engineering, design management, and technical assurance
- Contractors, specialist designers, consultants, developers, and client organizations
- Project management, construction management, and health and safety functions
- Property, transport, energy, facilities, and public works portfolios

Learning Objectives

By the end of this course, participants will be able to:



- Define design-risk roles, decision gates, and information responsibilities
- Identify hazards and apply elimination, reduction, and control principles during design
- Coordinate multidisciplinary interfaces, constructability input, and residual risks
- Manage preconstruction information, design reviews, changes, and decision records
- Prepare construction, use, maintenance, and handover risk information
- Build a Construction Design Risk Management and Coordination Pack

Course Agenda

Day 1: Design Risk Governance and Information

- Project Roles, Design Authority, and Responsibility Matrix
- Design-Risk Objectives and Decision-Gate Map
- Preconstruction Information Requirement and Gap Register
- Design Deliverable, Interface, and Review Schedule
- Competence, Consultation, and Escalation Protocol

Day 2: Hazard Identification and Risk Reduction

- Design Hazard Identification Workshop Method
- Construction, Use, Maintenance, and Decommissioning Risk Lens
- Eliminate, Substitute, Reduce, and Control Decision Hierarchy
- Design Risk Register and Action Ownership
- Residual-Risk Significance and Communication Test

Day 3: Coordination Constructability and Interfaces

- Multidisciplinary Design Interface Matrix
- Constructability, Access, Lifting, and Sequence Review
- Temporary Works and Permanent Works Coordination
- Contractor and Specialist Design Input Plan
- Design Clash, Assumption, and Decision Log

Day 4: Change Review and Handover Information

- Design Change Risk-Impact Assessment
- Review Comment, Action, and Closure Tracker
- Residual-Risk Drawing and Specification Annotation
- Construction-Phase Information Transfer Checklist
- Handover, Use, Maintenance, and Lessons-Learned File

Day 5: Design Risk Management Practice

- Exercise: Map Roles and Preconstruction Information
- Exercise: Identify Hazards and Compare Design Options
- Exercise: Resolve Constructability and Interface Risks
- Exercise: Control a Design Change and Prepare Handover Records
- Capstone Exercise: Construction Design Risk Management and Coordination Pack

Practical Exercises

The course uses suggested activities to make design-risk decisions visible, proportionate, coordinated, and traceable.

- Suggested activity: map a project's design roles, decision authority, information needs, and review gates.
- Suggested activity: facilitate a hazard review and compare elimination, reduction, and control options.
- Suggested activity: test a design for access, sequence, temporary works, specialist interfaces, maintenance, and future change.
- Suggested activity: assess a design revision, close review actions, and prepare residual-risk information for handover.

FAQs

Who suits the Construction Design Risk Management and Coordination Course?

It suits professionals who influence design decisions, coordinate technical interfaces, supply construction knowledge, review risk, or receive design and handover information.

Is this a country-specific regulatory course?

No. It uses widely applicable design-risk principles and management tools. Participants must apply the legal and organizational requirements relevant to each project separately.

What is a design risk register?

It is a working record of significant design hazards, affected activities or lifecycle stages, option decisions, selected controls, residual risks, owners, actions, and review status.

How should residual design risk be communicated?

Teams should communicate significant, unusual, or hard-to-recognize residual risks through coordinated drawings, specifications, registers, briefings, and handover records suited to the people who need them.



What does the capstone deliverable contain?

The Construction Design Risk Management and Coordination Pack includes roles, information requirements, hazard reviews, a design risk register, interface controls, constructability findings, change records, residual-risk communication, and handover information.

Conclusion

Participants take back a Construction Design Risk Management and Coordination Pack that connects roles, information, hazard decisions, interfaces, construction knowledge, design changes, residual risks, and handover records. The pack supports safer and more coordinated design decisions without replacing professional design responsibility, project approvals, or applicable legal advice.