



Construction Site HSE Hazard Control Course



AGILE LEADERS
Training Center

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Overview

Construction Site HSE Hazard Control Course is a five-day intermediate course for construction managers, site engineers, HSE professionals, supervisors, contractors, subcontractor coordinators, and client representatives. Participants identify health, safety, and environmental hazards, assess exposure, select controls, verify permits and field conditions, inspect work, respond to change, learn from incidents, and prepare emergency actions. Agile Leaders Training Center presents a site-execution workflow that produces a Construction Site HSE Hazard Control Pack.

Who Should Attend

- Construction managers and site engineers responsible for safe work execution
- HSE professionals facilitating hazard reviews, inspections, and corrective actions
- Supervisors leading crews in high-risk construction activities
- Contractor and subcontractor coordinators managing simultaneous operations and interfaces
- Client representatives reviewing site HSE controls and assurance evidence

The course assumes participants understand basic site operations. It focuses on execution hazards and field controls rather than design-risk management, country-specific legal advice, specialist rescue certification, or equipment operator licensing.

Departments and Industries

The course supports site teams across construction and capital-project environments.

- Building, civil, infrastructure, utilities, and industrial construction
- Construction management, site engineering, and HSE functions
- Contractors, subcontractors, developers, consultants, and client organizations
- Maintenance shutdowns, fit-out, refurbishment, and brownfield projects
- Energy, transport, property, facilities, and public works portfolios

Learning Objectives

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



- Identify construction health, safety, and environmental hazards systematically
- Apply risk assessment and the hierarchy of controls to site activities
- Evaluate permits, isolations, lifting plans, excavations, access, and work areas
- Coordinate simultaneous operations, contractor interfaces, and changing conditions
- Use inspections, observations, incident learning, and emergency drills to improve controls
- Build a Construction Site HSE Hazard Control Pack

Course Agenda

Day 1: Hazard Recognition and Control Planning

- Site Hazard Profile and Exposure Mapping
- Task Risk Assessment and Job Hazard Analysis
- Hierarchy of Controls and Control-Selection Record
- Permit-to-Work and Energy-Isolation Interface
- Daily Briefing, Worker Input, and Stop-Work Protocol

Day 2: Falls Lifting Plant and Excavation

- Work-at-Height, Access, and Falling-Object Controls
- Lifting Operation, Load Path, and Exclusion-Zone Review
- Mobile Plant, Vehicle Movement, and Pedestrian Separation
- Excavation, Ground Condition, and Protective-System Check
- Temporary Works, Stability, and Change Escalation

Day 3: Energy Confined Space and Work Environment

- Electrical Energy, Utilities, and Isolation Verification
- Confined-Space Entry, Atmospheric Test, and Standby Controls
- Hot Work, Fire Prevention, and Combustible Management
- Hazardous Substances, Dust, Noise, Heat, and Hygiene
- Waste, Spill, Emission, and Environmental-Control Plan

Day 4: Interfaces Assurance and Emergency Readiness

- Simultaneous Operations and Contractor Interface Matrix
- Site Inspection, Observation, and Control-Verification Checklist
- Incident, Near-Miss, and Learning Review
- Corrective Action, Ownership, and Closeout Tracker
- Emergency Scenario, Communication, and Drill Evaluation



Day 5: Construction HSE Hazard-Control Practice

- Exercise: Build a Site Hazard Profile and Task Risk Assessment
- Exercise: Review Height, Lifting, Plant, and Excavation Controls
- Exercise: Verify Permits, Isolations, and Environmental Measures
- Exercise: Investigate an Event and Test Emergency Readiness
- Capstone Exercise: Construction Site HSE Hazard Control Pack

Practical Exercises

The course uses suggested activities to connect hazard recognition with field-verifiable controls and accountable action.

- Suggested activity: inspect a simulated work area, identify exposures, and select controls using the hierarchy.
- Suggested activity: challenge a lifting, excavation, work-at-height, or mobile-plant plan against changing site conditions.
- Suggested activity: review a permit, isolation, atmospheric test, contractor interface, and environmental-control record.
- Suggested activity: analyze an incident scenario, assign corrective actions, and evaluate an emergency drill.

FAQs

Who suits the Construction Site HSE Hazard Control Course?

It suits managers, engineers, HSE professionals, supervisors, contractors, coordinators, and client representatives who plan, lead, verify, or review construction work in the field.

How does this course differ from design-risk management?

This course addresses hazards arising during site execution and the controls workers and supervisors must verify. Design-risk management addresses hazards that can be eliminated or reduced through design decisions and information.

What is a job hazard analysis?

It breaks a task into steps, identifies hazards and exposures at each step, selects controls, assigns responsibilities, and establishes checks for changes before and during work.

How are controls verified on a changing construction site?

Teams combine permits, pre-task briefings, field inspections, worker observations, isolation checks, supervision, hold points, change reviews, and documented closeout of deficiencies.



What does the capstone deliverable contain?

The Construction Site HSE Hazard Control Pack includes a hazard profile, task assessments, control selections, permit and isolation checks, critical-activity reviews, inspection tools, interface controls, incident learning, corrective actions, and emergency-readiness records.

Conclusion

Participants take back a Construction Site HSE Hazard Control Pack that links task planning, field conditions, permits, critical activities, occupational exposures, environmental controls, contractor interfaces, assurance, learning, and emergency action. The pack supports disciplined site decisions without replacing specialist certification, equipment authorization, or project-specific approvals.



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