Alternative Building Technologies Selection and Delivery Training Course

15 – 19 March 2027
Addis Ababa

AGILE LEADERS
Training Center

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Ref: 492_223710 **Date:** 15 – 19 March 2027 **Location:** Addis Ababa **Fees:** 6000 Euro

Overview

Alternative Building Technologies Selection and Delivery Training Course is a one-week course for construction engineers, architects, developers, project managers, quantity surveyors, sustainability specialists, building officials, and contractors who leave with an Alternative Building Technology Decision File. Participants compare off-site, modular, panelized, light-gauge steel, insulated-form, precast, and earth-based systems through performance, constructability, supply-chain, quality, and life-cycle criteria. Agile Leaders Training Center presents alternative building technologies through selection and implementation controls.

Who Should Attend

- Design functions responsible for system configuration, coordination, and performance criteria
- Development functions responsible for feasibility, investment, procurement, and delivery strategy
- Project functions responsible for constructability, schedule interfaces, logistics, and site integration
- Commercial functions responsible for cost models, supplier comparisons, and life-cycle evaluation
- Quality and approval functions responsible for evidence, inspection, acceptance, and records

The course assumes participants can interpret drawings, specifications, cost information, and project constraints, and it leaves out basic drafting, trade installation, and general construction management.

Departments and Industries

The course supports departments and industries that evaluate, procure, design, manufacture, assemble, or approve alternative building systems.

- Building development and architectural design
- Housing, education, healthcare, and hospitality projects
- Industrial facilities and remote-site construction
- Off-site manufacturing and component supply
- Engineering, procurement, quality, and sustainability departments

Learning Objectives

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

- Analyze project requirements for alternative building technology suitability
- Compare modular, panelized, precast, steel, insulated-form, and earth-based systems
- Evaluate code, performance, constructability, and life-cycle criteria
- Build design, factory, logistics, site-interface, and quality controls
- Prioritize suppliers and systems through evidence-based decision matrices
- Create an Alternative Building Technology Decision File

Course Agenda

Day 1: Technology Strategy and Selection Criteria

- Project Requirement and Constraint Profile
- Alternative Building Technology Classification Map
- System Suitability Screening Matrix
- Performance and Code Evidence Register
- Technology Selection Decision Gate

Day 2: Off-Site and Modular Delivery Systems

- Kit-of-Parts, Panelized, and Volumetric System Comparison
- Design-for-Manufacture-and-Assembly Coordination Map
- Module Interface and Tolerance Control Sheet
- Factory Production and Inspection Control Plan
- Transport, Storage, Lifting, and Weather Protection Schedule

Day 3: Structural and Envelope Alternatives

- Precast Concrete System Evaluation Matrix
- Light-Gauge Steel Framing Performance Review
- Insulated Concrete Form Constructability Check
- Engineered Earth-Based System Suitability Assessment
- Envelope, Fire, Acoustic, and Moisture Interface Register

Day 4: Commercial, Quality, and Implementation Controls

- Supplier Capability and Capacity Assessment
- Capital and Life-Cycle Cost Comparison Model
- Supply-Chain Readiness and Dependency Map
- Factory-to-Site Quality Assurance Plan
- Technology Pilot and Implementation Roadmap

Day 5: Alternative Building Technology Decision Practice

- Suggested Exercise: Screen Technologies Against Project Constraints
- Suggested Exercise: Review Modular Interfaces and Logistics
- Suggested Exercise: Compare Structural and Envelope Systems
- Suggested Exercise: Decide Supplier and Pilot Controls
- Capstone Exercise: Alternative Building Technology Decision File

Practical Exercises

The course uses suggested activities to turn project information and supplier evidence into controlled technology decisions.

- Suggested activity: screen a building brief against performance, code, site, schedule, labor, and supply-chain constraints.
- Suggested activity: map factory, transport, lifting, assembly, services, and enclosure interfaces for an off-site system.
- Suggested activity: compare structural and envelope alternatives using constructability, quality, cost, and life-cycle criteria.
- Suggested activity: assemble selection, supplier, pilot, inspection, logistics, and rollout evidence into a decision file.

FAQs

What are alternative building technologies in construction?

Alternative building technologies include off-site, modular, panelized, precast, light-gauge steel, insulated-form, and engineered earth-based systems evaluated as substitutes or complements to conventional site-built methods.

Who suits alternative building technologies training, and what does it assume?

Design, development, project, commercial, quality, approval, and contracting functions suit the training. It assumes experience interpreting drawings, specifications, costs, and project constraints.

How does alternative building technologies training differ from construction management training?

Alternative building technologies training focuses on system suitability, manufacturing, interfaces, logistics, performance, quality evidence, and implementation. Construction management training addresses broader project planning, contracts, resources, and controls.

How are alternative building systems compared?

Alternative building systems are compared through performance, code evidence, design maturity, constructability, factory capacity, logistics, site interfaces, quality controls, cost, lifecycle implications, and supply-chain readiness.

How is an alternative building technology introduced into a project?

An alternative building technology is introduced through requirement screening, supplier due diligence, coordinated design, evidence review, a controlled pilot, factory and site inspection points, interface planning, and a staged implementation roadmap.

Conclusion

Participants take back an Alternative Building Technology Decision File linking requirements, system options, suppliers, interfaces, logistics, quality, cost, and rollout. It changes isolated technology claims into a traceable selection and implementation path. The file gives design, development, commercial, quality, and delivery functions a shared basis for decisions.