CONCEPT

Formwork and Falsework Safety Training Course



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Introduction:

The Formwork and Falsework Safety Training Course is a one-week course for construction safety coordinators, temporary works inspectors, structural site supervisors, and concrete quality controllers, culminating in a Formwork and Falsework Safety Verification Dossier. Structural falsework collapses, premature striking incidents, and improper lateral shoring introduce severe operational delays, structural failure liabilities, and catastrophic workplace hazards across cast-in-place concrete operations. Nominees currently examine daily site safety permits, review pour clearances, and inspect scaffolding connections, developing these operational capabilities through guided inspection walkthrough analysis. CoreConcept Training Center delivers this Formwork and Falsework Safety Training Course to standardise temporary works safety assurance and structural integrity verification.

Course Objectives:

- Verify temporary shoring and reshoring installations against ACI 347R-14 and ANSI/ASSP A10.9 safety provisions
- Evaluate vertical formwork hydrostatic pressure thresholds and pour rate limits using ACI SP-4 guidelines
- Audit falsework operational controls and procedural responsibilities in compliance with BS 5975-1:2024 and BS 5975-2:2024
- Classify falsework structural performance and lateral load capacities according to BS EN 12812 requirements
- Implement pre-pour safety check protocols, strike permit controls, and load release routines under ISO 45001:2018 systems
- Inspect concrete strength gain benchmarks and shoring removal sequences using calibrated non-destructive testing data

Target Audience:

- Construction safety coordinators responsible for inspecting temporary works stability, access platforms, and fall arrest configurations
- Temporary works site inspectors responsible for executing pre-pour verifications, falsework sign-offs, and daily safety tagging
- Structural site supervisors responsible for overseeing cast-in-place shoring erection, concrete placement sequencing, and formwork alignment
- Concrete quality assurance controllers responsible for verifying concrete maturity, compressive test results, and stripping permission gates

Course Outline:

Day 1: Safety Foundations and Cast-in-Place Structural Hazard Profiling

- OSHA 29 CFR 1926 Subpart Q Principles Establishing Formwork Site Safety
- ANSI/ASSP A10.9 Safety Provisions Identifying Concrete Construction Hazards
- ISO 45001:2018 Safety Management Frameworks Classifying Falsework Structural Risks
- ACI 347R-14 Criteria Establishing Temporary Works Safety Factor Baselines
- Baseline Risk Assessments Evaluating Dynamic Concrete Placement Loads

Day 2: Standards, Falsework Classification, and Structural Pressure Controls

- BS 5975-1:2024 Procedural Standards Structuring Temporary Works Coordination Protocols
- BS EN 12812 Performance Frameworks Classifying Falsework System Capacities
- ACI SP-4 Technical Guidelines Calculating Lateral Concrete Hydrostatic Pressure
- ACI 347.2R Design Provisions Evaluating Multistory Shoring Load Redistribution
- Permissible Stress Methods Verifying Falsework Component Safe Working Limits

Day 3: Erection Verification, Lateral Bracing, and Site Inspection Tools

- Pre-Pour Checklist Protocols Verifying Ties Walers And Mudsills
- BS 5975-2:2024 Falsework Rules Inspecting Bracing And Jack Extension
- Safety Tagging Systems Implementing Authorised Permit To Pour Releases
- Plumb And Alignment Gauges Checking Falsework Verticality Tolerances
- Access Scaffold Boundary Rules Enforcing Fall Protection Integration

Day 4: Striking Controls, Concrete Strength Gating, and Failure Modes

- Concrete Maturity Testing Methods Authorising Formwork Striking Schedules
- Permit To Strike Procedures Regulating Formwork Decentering Sequences
- Reshoring Protocol Controls Preventing Slab Deflection And Cracking
- Incident Investigation Tools Diagnosing Progressive Falsework Buckling Triggers
- Thermal Monitoring Regimes Managing Extreme Pour Rate Pressures

Day 5: Inspection Walkthrough and Dossier Compilation

- Inspection Walkthrough Protocols Auditing High-Risk Slab Shoring Configurations
- Inspection Walkthrough Routines Verifying Wall Formwork Tie Integrity
- Inspection Walkthrough Methods Validating Column Formwork Lateral Bracing
- Inspection Walkthrough Verification Testing Strike Readiness Concrete Data
- Formwork And Falsework Safety Verification Dossier Completing Final Assurance

Skills You Will Gain:

- Falsework Structural Risk Assessment
- Hydrostatic Lateral Pressure Verification
- Pre-Pour Inspection Walkthrough Auditing
- Temporary Works Safety Tagging
- Concrete Strike Permit Administration
- Multistory Shoring Load Assessment
- Temporary Works Incident Root-Cause Diagnosis

Why Attend This Course:

- Deliver a Formwork and Falsework Safety Verification Dossier to the project safety manager to ensure rigorous pre-pour and striking quality compliance.
- Authorise or suspend concrete pour clearances and formwork striking permits based on verified structural checks and concrete curing strength data.
- Prevent catastrophic falsework collapses, early-age slab deflections, and unbudgeted structural remedial costs across concrete construction assets.
- Instruct site supervisors and subcontractor teams on standardised daily temporary works inspection routines, bracing checks, and tagging systems.

Conclusion:

Following this course, the organisation integrates the Formwork and Falsework Safety Verification Dossier directly into construction management and HSE field operations. The project director and construction safety manager use this deliverable to validate falsework stability, approve pour authorisations, and govern formwork striking activities across all active structures. Within sixty days of implementation, the temporary works safety committee should review completed pre-pour checklists, strike permit records, and field inspection findings to confirm that all concrete shoring operations comply with defined structural safety and international procedural standards.

Frequently Asked Questions FAQ:

Which roles should an organisation nominate for the Formwork and Falsework Safety Training Course?

Construction safety officers, temporary works site supervisors, field inspection technicians, and concrete quality engineers should attend. Nominees inspect temporary works installations, oversee concrete placement safety, verify shoring alignment, or manage pre-pour checklists and striking permit controls on commercial, civil, or infrastructure building sites.

What should nominees already do at work before attending the Formwork and Falsework Safety Training Course?

Nominees should already conduct on-site safety walkthroughs, review basic formwork drawings, inspect scaffolding or shoring components, and monitor daily concrete placement activities. Familiarity with standard personal protective equipment protocols and site permit systems ensures immediate engagement with advanced temporary works inspection frameworks.

What does the organisation receive when the participant returns from the Formwork and Falsework Safety Training Course?

The organisation receives a Formwork and Falsework Safety Verification Dossier. This field-ready deliverable provides pre-pour inspection checklists, temporary works tagging workflows, hydrostatic pressure control tables, striking permit governance templates, and reshoring safety protocols ready for immediate deployment on active construction projects.

Which standards and frameworks does the Formwork and Falsework Safety Training Course follow?

The course follows ACI 347R-14 and ACI 347.2R for formwork and shoring guidance, BS 5975-1:2024 and BS 5975-2:2024 for temporary works procedures, BS EN 12812 for falsework performance requirements, and OSHA 29 CFR 1926 Subpart Q alongside ANSI/ASSP A10.9 for construction safety.