

Concrete Essentials QA/QC Plan Sample

Good for smaller projects and bid qualifications

Has All the Essential Elements of a well-founded Quality Control Plan

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PROJECT-SPECIFIC CONCRETE QUALITY PLAN

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B. KEY ELEMENTS OF THE CONCRETE QUALITY PLAN

Key elements of the [CompanyName] Quality Assurance/Quality Control Plan include:

Quality Management and Responsibilities. [CompanyName][CompanySuffix] fully

integrates its quality management system into the organizational structure and performance management systems for each project. We:

- Maintain a documented quality system consisting of a quality manual with policies and procedures.
- Tightly control exceptions to the quality system so company standards are applied uniformly to every project
- Systematically maintains quality system documents and records.

Quality Control Personnel. [CompanyName] fully integrates its quality management system

into the organizational structure and performance management systems for each project. We:

- Appoint a Quality Manager, Superintendent, and Project Manager to each project, each with well-defined quality responsibilities and the authority to carry them out.
- Have well-defined quality responsibilities for every employee with specific quality responsibilities for key job positions.
- Plan project quality records and documentation that will be maintained.
- Tightly control exceptions to the quality system so company standards are applied uniformly to every project
- Enforce policies that monitor work conditions before and during work so that quality results are assured.

Project Quality Coordination and Communication. [CompanyName] tightly controls

the construction process to ensure quality results. We:

- Plan quality communications through meetings, reporting requirements, and points of contact.
- Have a project startup meeting to communicate project goals and expectations.
- Conduct preparatory meetings in advance of each scheduled work task to communicate requirement details and coordinate work activities.

Quality Assurance Surveillance. [CompanyName] audits the quality system to assure it is operating effectively. We:

- Audit the operation of the quality system on each project for conformance to the Project Quality Assurance/Quality Control Plan and the [CompanyName] Quality System requirements.
- Conduct annual company-wide audits to evaluate effectiveness of the [CompanyName] Quality

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COMPLIANCE WITH INDUSTRY CONCRETE STANDARDS

Selected

Codes that may apply to this project include those listed below.

Regulatory Codes and Industry Standards							
Division Description		Reference Standard No.	Reference Standard Title				
03	Construction and placement of forms, shoring and scaffolding	ACI MCP-2	Manual of Concrete Practice Part 2				
03	Reinforcement fabrication shapes and dimensions	ACI 318M	Building Code Requirements for Structural Concrete and Commentary				
03	Reinforcement Placement	ACI 318M	Building Code Requirements for Structural Concrete and Commentary				
03	Reinforcement Splices	ACI 318M	Building Code Requirements for Structural Concrete and Commentary				
03	Reinforcement Splice Welds	AWS D1.4 D1.4M	Structural Welding Code - Reinforcing Steel				
03	Fiber Reinforcement mixing	ASTM C 1116/C 1116M	Standard Specification for Fiber-Reinforced Concrete				

I. CONCRETE WORK TASK QUALITY INSPECTIONS

[CompanyName] identifies a list of work tasks, phases of production, which will be quality controlled.

WORK TASKS SERIES OF INSPECTIONS

Each work Task is subject to a series of inspections; before, during, and after the work is complete. Each inspection verifies compliance with full scope of the relevant specifications; not limited to checkpoints for heightened awareness.

- The initial task-ready inspection occurs when crews are ready to start work and ensures that work begins only when it does not adversely impact quality results.
- Incoming material inspections verify that materials are as specified and meet all requirements necessary to assure quality results.
- Work-in-process inspections continuously verify that work conforms to project specifications and workmanship expectations. Work continues only when it does not adversely impact quality results.
- At completion of the Task an inspection verifies that work, materials, and tests have been completed in accordance with project quality requirements. When appropriate, functional tests are performed.

Inspection results are recoded and maintained as part of the project files.

SPECIAL PROCESS INSPECTIONS

The Quality Manager identifies special processes where the results cannot be verified by subsequent inspection or testing and determines if continuous work in process inspections are required. For these special processes, a qualified inspector continuously inspects the work process.

MATERIAL QUALITY INSPECTION AND TESTS

J. QUALITY CONTROL OF CORRECTIONS, REPAIRS, AND NONCONFORMANCES

Should a problem occur in the quality of work, we systematically contain the issue and quickly make corrections. Our first action is to clearly mark the item by tape, tag, or other easily observable signal to prevent inadvertent cover-up.

Then we expedite a corrective action that brings the workmanship or material issue into conformance by repair, replacement, or rework. Previously completed work is reinspected for similar nonconformances. In the event that we cannot correct the item to meet contract specifications, the customer will be notified and customer approval of corrective actions is required before proceeding.

Fixing problems found is not sufficient. [CompanyName] systematically prevents recurrences to improve quality. First enhanced controls and management monitoring are put into place to assure work proceeds without incident. Then using a structured problem solving process, [CompanyName] identifies root causes and initiates solutions. Solutions may involve a combination of enhanced process controls, training, upgrading of personnel qualifications, improved processes, and/or the use of higher-grade materials. Follow-up ensures that a problem is completely resolved. If problems remain, the process is repeated.

Nonconformances and their resolution are recorded on a Nonconformance Report form. A Nonconformance Report form exhibit is included in this subsection.



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[CompanyName][CompanySuffix] Nonconformance Report								
Nonconformance Report Control ID	Project ID	Project Name						
	[ProjectNumber]	[ProjectName]						
Droparor Signatu								
Preparer Signatu	ire/ Submit Date	Quality Manager Signature / Disposition Date						
Description of the requirement or specification								
Description of the nonconformance, location, affected area, and marking	6							
Disposition	Replace Repair Rework Use As-is Approval of disposition required by customer representative? Yes No Customer approval signature /date: No							
Corrective Actions	Corrective actions completed Name/Date: Customer acceptance of corrective actions required? Yes No No Name/Date:							
Preventive Actions	Preventive actions completed Name/Date:							

LIST OF INCLUDED INSPECTION FORMS FOR: **CONCRETE**

- Cast Decks and Underlayment
- Concrete Finishing
- Concrete Forming
- Concrete Reinforcing
- Grouting
- Precast Concrete
- Structural Concrete

selecteorad

Project: Phase:	Contrac		Subcontractor:	Crew:
Compliance Verification	FTQ		htened Awareness Checkpoin	
 Compliance with initial job-ready requirements Compliance with material inspection and tests Compliance with work in process first article inspection requirements Compliance with work in process inspection requirements Compliance with Task completion inspection requirements Compliance with inspection and test plan Compliance with safety policies and procedures Reported Nonconformances and incomplete items: 		 Under dama Overh area : Decki Reinfor location Long form of Concr Finish drains Openi Ceme Ceme 	truction benchmark placement is stable and protected arground Facilities located and marked to prevent age from placement equipment head Utility Crossings located and marked in work and along travel routes ing forms adequately braced and supported forcing adequately supported to ensure proper final ion in placed concrete dimension of wire reinforcement is perpendicular to corrugations rete Toppings adequately bonded to substrate hed surfaces are level/even sloped and sloped to s sings sealed and appurtenances protected before ent Underlayment material curing temperature tained as per manufacturer's recommendation	
FTQ Scores	and Co	mpletion	Sign-off	
Field Mgmt91.45.01 Quality 5 4 3 2 1 Notes: On-Time 5 4 3 2 1 Notes:)			
Safety 5 4 3 2 1 Notes:				
Sign and date*: Cell # / ID #::	Signed:		Dat	e:
Quality Score 5 = 100% NO problems 4 = 1 minor problems Qn-Time Score 5 = 0n Time 4 = Late Safety Score 5 = 100% NO problems 4 = 1 minor problem	3 =	= Hotspot or 2-3 n = Late by 1 day = Hotspot or 2-3 n	2 = Late by 2 days	I = Excessive problems I = Late more than 2 days I = Injury

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