

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 INSTALLATION QUALITY PLAN

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B. KEY ELEMENTS OF THE COMMUNICATIONS QUALITY PLAN

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

Quality Management and Responsibilities. [CompanyName] 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 System and improve its operation.

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COMPLIANCE WITH INDUSTRY INSTALLATION STANDARDS

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

Selecte

Regulatory Codes and Industry Standards							
Division	Description	Reference Standard No.	Reference Standard Title				
27	Grounding of systems	IEEE 142	Recommended Practice for Grounding of Industrial and Commercial Power Systems				
27	System electrical installation	NFPA 70	National Electrical Code				
27	Cables not installed in conduit or wireways	NFPA 70	National Electrical Code				
27	Cable tray installation	NEMA VE 2	Cable Tray Installation Guidelines				
27	Grounding and bonding of cable trays	NFPA 70	National Electrical Code				
27	Preparation of record drawings including documentation on cables and termination hardware	TIA/EIA-606	Administration Standard for the Telecommunications Infrastructure				

I. INSTALLATION 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

Material quality inspections and tests ensure that purchased materials meet purchase contract quantity and quality requirements. The Superintendent inspects or ensures that a qualified inspector inspects materials prior to use for conformance to project quality requirements.

The Superintendent ensures that each work task that uses the source inspected materials proceed only after the material has been accepted by the material quality inspection or test.

DAILY QUALITY CONTROL REPORT

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] Nonconformance Report								
Nonconformance Report Control ID	Project ID	Project Name						
	[ProjectNumber]	[ProjectName]						
Preparer Signatu		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							
Corrective Actions	Customer approval signature /date: Customer accions completed Name/Date: Customer acceptance of corrective actions required? Yes Name/Date:							
Preventive Actions	Preventive actions completed Name	9/Date:						

LIST OF INCLUDED INSPECTION FORMS FOR COMMUNICATIONS

FROM CSI DIVISIONS

• Communications - 27

FORMS:

- Audio-Video Communications
- Cable Trays for Communications Systems
- Communications Backbone Cabling
- Communications Equipment Room Fittings
- Data Communications
- Structured Cabling
- Voice Communications

Project:	Phase:	Contract#:	Subcontractor:	Crew:	
Compliance Verification □ Compliance with ini ready requirements		FTQ 2TQ	Heightened Awareness Check Cable Trays mounted secure free of sway / rotation	ely to structural members and	
 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: 			 Minimum clearances observed Metal Cable Trays grounded and bonded Cables secured within Tray system Cable Tray expansion joints installed where building expansion joints are traversed Firestops installed at penetrations through fire partitions// fire walls// smoke partitions// or floors Burrs and sharp edges removed Dropouts// conduit connectors// etc. do not impose excessive loads on Cable Trays 		
Field Mgmt <u>91.45.0</u> Quality 5 4 3		s and Comp	letion Sign-off		
On-Time 5 4 3	2 1 Notes:				
Safety 5 4 3	2 1 <i>Notes</i> :				
•	e and in compliance with contract drawings and speci	Signed:	n-conformances a n d incomplete items reported	_Date:above.	
<u>On-Time Score</u> $5 = On$	% NO problems 4 = 1 minor problem. Time 4 = Late % NO problems 4 = 1 minor problem.	3 = Late	$\begin{array}{llllllllllllllllllllllllllllllllllll$	1 = Late more than 2 days	

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