

# Telecom-Ericsson Essentials QA/QC Plan Sample

**Good for smaller projects and bid qualifications** 

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

> Contact: FirstTimeQuality 410-451-8006

#### Answers the following Ericsson questions:

- How does the SP control documentation
- Who is responsible for site documentation and where is it located
- Who is responsible for quality in the organization and on site include org chart
- How does the SP control purchasing and warehousing
- How does the SP define and control inspections and what measuring and test equipment is used
- How does the SP validate processes

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- What is the SPs procedure for service acceptance
- How does the SP control a nonconforming service
- How does the SP institute corrective and preventive action when
   errors occur
- How does the SP handle training and employee records
- Warranty servicing process
- What statistical techniques does the SP use to track their quality

## **Questions? Call First Time Quality 410-451-8006**

# **PROJECT-SPECIFIC CONSTRUCTION QUALITY PLAN**

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Q. Statistical Methods
Statistical Methods for Task Quality Performance
Statistical Methods for Quality System Performance

# **B.** Key Elements of the Construction Quality **P**LAN

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:

# I. CONSTRUCTION INSPECTION AND TEST PLAN

[CompanyName] identifies inspections and tests that will be performed during the project. A test report is completed for each test. The test reports are then used for monitoring compliance to the plan and tracking results.

If independent laboratories are required to perform tests or quality inspections, we ensure that the laboratories are certified by a nationally recognized testing accreditation organization as appropriate for the scope of the inspection or test.

The Quality Inspection and Test Plan form lists inspections and tests (other than work task inspections) that will be performed on this project.

Results of inspections and tests will be recorded on the Inspection and Test Form.

Form exhibits are included as an exhibit in this subsection.

# **CONTROL OF INSPECTION, MEASURING, AND TEST EQUIPMENT**

Inspection, measuring, and test equipment that will be controlled, calibrated, and maintained.

The Quality Manager evaluates the project requirements and determines if there are measuring devices that require controls to assure quality results.

For each type of device the Quality Manager identifies:

3010

## **Questions? Call First Time Quality 410-451-8006**

[CompanyName] Nonconformance Report								
Version 20140519								
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         Customer approval signature /date:							
Corrective Actions	Corrective actions completed Name/Date: Customer acceptance of corrective actions required? Yes No							
Preventive Actions	Preventive actions completed Name/Date:							

# LIST OF INCLUDED INSPECTION FORMS

## CONCRETE

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

### EARTHWORK

- Bored Piles
- Caissons
- Clearing and Grubbing
- Driven Piles
- Excavating and Fill
- Grading

### METALS

- Metal Decking
- Metal Railings
- Metal Stairs
- Structural Steel Framing

## ELECTRICAL

- Conduit for Electrical Systems
- Electrical and Cathodic Protection
- Enclosed Bus Assemblies
- Exterior Lighting
- Grounding and Bonding for Electrical Systems
- Identification for Electrical Systems
- Interior Lighting
- Low-Voltage Circuit Protective Devices
- Low-Voltage Controllers
- Low-Voltage Electrical Power Conductors and Cables (<600V)
- Low-Voltage Electrical Service Entrance
- Low-Voltage Switchgear
- Low-Voltage Transformers
- Raceway and Boxes for Electrical Systems
- Switchboards and Panelboards

Metals-Structural Steel Framing 05.12.00

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Project:	Phase:	Contrac	t#:		Organization:	Crew:				
					<u>9101</u> Field Operations					
Compliance Verification ☐ Compliance with initial job-ready requirements ☐ Compliance with material inspection and tests ☐ Compliance with work in process first article inspection requirements		FTQ	2TQ	Heightened Awareness Checkpoints						
					Shop applied primer and galvanizing intact and without blemishes <u>2580</u>					
				Drainage holes installed to prevent water traps with unobstructed openings <u>2581</u>						
<ul> <li>Compliance with work in process inspection requirements</li> <li>Compliance with Task completion inspection requirements</li> </ul>				Bearing base plates fully and evenly supported 2582						
				Connecting bolts, washers, and nuts tight and clean of dirt/rust <b>2583</b>						
□ Compliance with inspect □ Compliance with safety				Welded connections continuous, even, clean, and free of blow holes or other irregularities 2584						
Reported Nonconformances and incomplete items:					Connecting hardware and welds primed with paint of the same quality as the shop coat <b><u>2585</u></b>					
				Openings ir <u>2586</u>	n structural members app	proved by ENGINEER				
				Spray-on fir	reproofing evenly applied	d and without gaps <u>2587</u>				
					embers free of twist, bow rregularity <u>2588</u>	v, buckle, or other				
				Framing me	embers installed plumb, I	level, and true to line 2589				
FTQ Scores and Completion Sign-off										
Field MgmtSuperintendent Inspection 91.45.01										
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: Date: Date:										
Field MgmtQA Inspection <u>91.45.02</u>										
Quality 5 4 3 2 1 Notes:										
Sign and date*: Cell # / ID #		Signod								
Sign and date*: Cell # / ID #::        Date:         Task has been has been verified complete and in compliance with contract drawings and specifications except for non-conformances and incomplete items reported above.       Date:										
Quality Score         5 = 100% NC           On-Time Score         5 = 0n Time           Safety Score         5 = 100% NO	4 = Late	3 =	Late by	t or 2-3 minor 1 day t or 2-3 minor	2 = Late by 2 days $l =$	Excessive problems Late more than 2 days Injury				

Electrical-Conduit for Electrical Systems 26.05.33.13

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Project:	Phase:	Contrac			Organization:		Crew:			
	Fildse.	Contrac	<i>.</i> 1#.		9101		Ciew.			
					Field Operations					
Compliance Verification Compliance with initial job-ready requirements		FTQ	2TQ	Heightened Awareness Checkpoints						
				Cuts for Conduits in structural members approved by ENGINEER <u>1652</u>						
<ul> <li>Compliance with material inspection and tests</li> <li>Compliance with work in process first article inspection requirements</li> <li>Compliance with work in process inspection requirements</li> <li>Compliance with Task completion inspection requirements</li> </ul>				Firestops installed at penetrations through fire partitions// fire walls// smoke partitions// or floors 1653						
				Penetrations through floor// exterior wall and roof sealed and made watertight <u>1654</u>						
				Excess wiring// insulation// ties// etc. removed from Conduits 1655						
<ul> <li>Compliance with inspect</li> <li>Compliance with safety</li> </ul>	•			Conduits secured to prevent movement and chafe 1656						
Reported Nonconformances	and incomplete items:			Remaining snake lines labeled at both ends 1657						
			Conduit bends do not exceed minimum for size of Conduit used and are even <u>1658</u>							
				Metal Conc	luits bonded and grou	nded <u>165</u>	<u>9</u>			
Conduits are mechanically continuous <u>1660</u>					<u>0</u>					
				Flexible cor	nnections to equipmer	nt subject	to vibrations <u>1661</u>			
FTQ Scores and Completion Sign-off										
Field MgmtSuperinten	dent Inspection 91.45.01	1	4	<del>X</del>						
	Notes:	_		Ň						
On-Time 5 4 3 2 1 Notes:										
Safety 5 4 3 2 1 Notes:										
Safety 5 4 3 2 1	Notes.									
Sign and date*: Cell # / ID #:: Signed: Date:										
Task has been has been verified complete and in compliance with contract drawings and specifications except for non-conformances and incomplete items reported above.										
Field MgmtQA Inspection <u>91.45.02</u>										
Quality 5 4 3 2 1	Notes:									
Sign and date*: Cell # / ID #::		Signed	l:		Date:					
Task has been has been verified complete and in compliance with contract drawings and specifications except for non-conformances and incomplete items reported above.										
Quality Score         5 = 100% NC           On-Time Score         5 = On Time           Safety Score         5 = 100% NO	4 = Late	3 :	= Late by	ot or 2-3 minor y 1 day ot or 2-3 minor	2 = 6+ or major problems 2 = Late by 2 days 2= 4+ or major problem	1 = Excessive   1 = Late more 1= Injury				



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