



ASME Welding Contractor QA/QC Plan Sample

Selected pages (not a complete plan)

Part 1: Project-Specific Quality Plan

Part 2: Quality Manual

Part 3: Submittal Forms

Part 4: Inspection Checklist Forms

Contact:

FirstTimeQuality

410-451-8006

PROJECT-SPECIFIC WELDING QUALITY PLAN

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I. WELD PROJECT QUALITY SPECIFICATIONS

Fulfilling customer contract expectations is a primary objective of the [CompanyName] Quality System. To ensure that customer expectations will be fulfilled, [CompanyName] clearly defines the requirements for each contract before it is approved.

The Project Manager ensures that the information in customer contracts clearly defines customer expectations and that the necessary details are provided to set requirements for fabrication.

[CompanyName] personnel and subcontractors and suppliers are accountable for compliance to standards-based written specifications.

To achieve expectations reliably and consistently, specifications are clearly spelled out, not only for results but also for processes. Specifications apply to materials, work steps, qualified personnel and subcontractors and suppliers, safe work rules, and environmental work conditions.

Standards ensure that results are specified rather than left to discretionary practices.

All [CompanyName] fabrication activities comply with generally accepted good workmanship practices and industry standards.

COMPLIANCE WITH INDUSTRY WELDING STANDARDS

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

Regulatory Codes and Industry Standards			
Division	Description	Reference Standard No.	Reference Standard Title
5	Minimum spacings and edge distances for screws	AISI SG02-KIT	North American Specification for the Design of Cold-Formed Steel Structural Members
5	Installation of bracing and permanent bracing and bridging	CFSEI	Field Installation Guide for Cold-Formed Steel Roof Trusses
5	Installation of chimneys, vents, and smokestacks	NFPA 211	Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances
5	Framing and reinforcing openings through a steel deck	SDI DDP	Deck Damage and Penetrations
5	Install high-strength bolts		RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts"
5	Beveling, alignment, heat treatment, and inspection of weld	ASME B31.1	Power Piping
5	Requirements for piping of fluids	ASME B31.3	Process Piping

PROJECT - SPECIFIC WELDING PROCEDURE STANDARDS

The Quality Manager approves welding procedures before they can be used to fabricate metal.

Form QW-483 Welding Procedure Qualification Record

QW-483 SUGGESTED FORMAT FOR PROCEDURE QUALIFICATION RECORDS (PQR)
(See QW-200.2, Section IX, ASME Boiler and Pressure Vessel Code)
Record Actual Variables Used to Weld Test Coupon

Company Name _____
 Procedure Qualification Record No. _____ Date _____
 WPS No. _____
 Welding Process(es) _____
 Types (Manual, Automatic, Semi-Automatic) _____

JOINTS (QW-402)

Groove Design of Test Coupon
 (For combination qualifications, the deposited weld metal thickness shall be recorded for each filler metal and process used.)

BASE METALS (QW-403) Material Spec. _____ Type/Grade, or UNS Number _____ P-No. _____ Group No. _____ to P-No. _____ Group No. _____ Thickness of Test Coupon _____ Diameter of Test Coupon _____ Maximum Pass Thickness _____ Other _____	POSTWELD HEAT TREATMENT (QW-407) Temperature _____ Time _____ Other _____																																																														
FILLER METALS (QW-404) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">1</th><th style="width: 30%;">2</th><th style="width: 40%;">3</th></tr> </thead> <tbody> <tr> <td>SFA Specification _____</td><td></td><td></td></tr> <tr> <td>AWS Classification _____</td><td></td><td></td></tr> <tr> <td>Filler Metal F-No. _____</td><td></td><td></td></tr> <tr> <td>Weld Metal Analysis A-No. _____</td><td></td><td></td></tr> <tr> <td>Size of Filler Metal _____</td><td></td><td></td></tr> <tr> <td>Filler Metal Product Form _____</td><td></td><td></td></tr> <tr> <td>Supplemental Filler Metal _____</td><td></td><td></td></tr> <tr> <td>Electrode Flux Classification _____</td><td></td><td></td></tr> <tr> <td>Flux Type _____</td><td></td><td></td></tr> <tr> <td>Flux Trade Name _____</td><td></td><td></td></tr> <tr> <td>Weld Metal Thickness _____</td><td></td><td></td></tr> <tr> <td>Other _____</td><td></td><td></td></tr> </tbody> </table>	1	2	3	SFA Specification _____			AWS Classification _____			Filler Metal F-No. _____			Weld Metal Analysis A-No. _____			Size of Filler Metal _____			Filler Metal Product Form _____			Supplemental Filler Metal _____			Electrode Flux Classification _____			Flux Type _____			Flux Trade Name _____			Weld Metal Thickness _____			Other _____			GAS (QW-408) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th><th colspan="3">Percent Composition</th></tr> <tr> <th>Gas(es)</th><th>(Mixture)</th><th>Flow Rate</th></tr> </thead> <tbody> <tr> <td>Shielding _____</td><td></td><td></td><td></td></tr> <tr> <td>Trailing _____</td><td></td><td></td><td></td></tr> <tr> <td>Backing _____</td><td></td><td></td><td></td></tr> <tr> <td>Other _____</td><td></td><td></td><td></td></tr> </tbody> </table> ELECTRICAL CHARACTERISTICS (QW-409) Current _____ Polarity _____ Amps. _____ Volts _____ Tungsten Electrode Size _____ Mode of Metal Transfer for GMAW (FCAW) _____ Heat Input _____ Other _____		Percent Composition			Gas(es)	(Mixture)	Flow Rate	Shielding _____				Trailing _____				Backing _____				Other _____			
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POSITION (QW-405) Position of Groove _____ Weld Progression (Uphill, Downhill) _____ Other _____	TECHNIQUE (QW-410) Travel Speed _____ String or Weave Bead _____ Oscillation _____ Multipass or Single Pass (Per Side) _____ Single or Multiple Electrodes _____ Other _____																																																														
PREHEAT (QW-406) Preheat Temperature _____ Interpass Temperature _____ Other _____																																																															

07/10

[CompanyName]
Metals Material Receiving Inspection Report

Version 20140615

Project ID	Project Name	P.O.#	Supplier	Receipt Date
[ProjectNumber]	[ProjectName]			
Type of Material (i.e., steel plate)	Material Description (nominal dimensions)	Heat Number/ Serial Number/Markings	Condition / Damage	Color Code Marking
Receiving Inspector Approval Signature / Date		Government Representative Name/Approval Date		
				☐ Material Receiving Inspection Passed

**[CompanyName]
Quality Inspection and Test Plan**

Project ID			Project Name						CONTRACTOR		
[ProjectNumber]			[ProjectName]						[CompanyName]		

SPECIFICATION SECTION AND PARAGRAPH NUMBER	SCHEDULE ACTIVITY ID	TEST REQUIRED	ACCREDITED/ APPROVED LAB YES /NO	SAMPLED BY	TESTED BY	LOCATION OF TEST ON/OFF SITE/SITE	DATE COMPLETED	DATE FORWARDED TO CUSTOMER	REMARKS

M. WORK TASK QUALITY INSPECTIONS

[CompanyName] identifies a list of work tasks which will be quality controlled. Each work task is subject to a series of inspections; before, during, and after completion.

Each inspection verifies compliance with full scope of the relevant specifications; not limited to inspection form checkpoints.

The initial work task-ready inspection occurs when work is ready to start 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 quality expectations. Work continues only when it does not adversely impact quality results.

At completion of the work task an inspection verifies that work has been completed in accordance with project quality requirements.

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

The Quality Manager identifies each Task that is a phase of fabrication that requires separate quality controls to assure and control quality results. Each Task triggers a set of requirements for quality control inspections before, during and after work tasks.

Independent quality audits are conducted to verify that the task quality controls are operating effectively.

Fabrication projects may execute a work task multiple times in a project, in which case a series of quality inspections are required for each work task.

Independent quality control audits are conducted to verify that the task quality controls are operating effectively.

IDENTIFICATION OF QUALITY INSPECTED WORK TASKS

A listing of project work tasks is included on the Quality Control work task List and included as an exhibit in this subsection.

REQUIRED INSPECTIONS FOR EACH WORK TASK

Each work task is subject to a series of inspections before, during, and at completion as described below. Results of inspections are recorded.

PREPARATORY SITE INSPECTION

The Superintendent performs a quality inspection of the work area and:

- Assesses completion of required prior work
- Verifies field measurements
- Assures availability and receiving quality inspection status of required materials
- Identifies any nonconformances to the requirements for the task to begin
- Identifies potential problems

TASK-READY INSPECTIONS

For each work task, the Superintendent or a qualified inspector performs job-ready quality inspections to ensure that work activities begin only when they should begin. Job-ready quality inspections verify that conditions conform to the project quality requirements.

WORK IN PROCESS QUALITY INSPECTIONS

For each work task, the Superintendent or a qualified inspector performs an initial work in process inspection when the first representative portion of a work activity is completed.

The Superintendent or a qualified inspector performs ongoing work in process quality inspections to ensure that work activities continue to conform to project quality requirements.

WORK TASK COMPLETION QUALITY INSPECTIONS

For each work task, the Quality Manager or a qualified inspector inspects the completion of each work task to verify that work conforms to project quality requirements.

Completion quality inspections are performed for each work task. Completion quality inspections are conducted before starting other work activities that may interfere with an inspection.

Any outstanding punch items remaining after the work task completion inspection is deemed a nonconformance.

Selected Pages

Form P-4A Welded Piping Inspection

FORM P-4A MANUFACTURER'S DATA REPORT FOR FABRICATED PIPING As Required by the Provisions of the ASME Code Rules, Section I		
1. Manufactured by _____ (Name and address of manufacturer)	Order No. _____	P-4A ID No. _____
2. Manufactured for _____ (Name and address of purchaser)	Order No. _____	
3. Location of installation _____	Boiler Registration No. _____	
4. Identification _____ (Main steam, boiler feed, blow-off, or other service piping — state which)	Piping Registration No. _____	
5. Design Conditions of Piping _____ (Pressure)	_____ (Temperature)	Specified by _____ (Name of Co.)
Code Design by _____		
6. The chemical and physical properties of all piping meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The construction and workmanship conform to Section I of the ASME BOILER AND PRESSURE VESSEL CODE _____ (Year)		
Addenda to _____ (Date) (if applicable), and Code Cases _____ (Numbers)		
7. Description of Piping (include material identifications by ASME specification or other recognized Code designation) _____		
8. Shop Hydrostatic Test _____		
9. Remarks _____		
CERTIFICATE OF SHOP COMPLIANCE We certify the statement in this data report to be correct and that all details of design, material, construction, and workmanship of the described piping conform to Section I of the ASME BOILER AND PRESSURE VESSEL CODE. Our Certificate of Authorization No. _____ to use the (S) or (PP) Designator _____ Expires _____ Date _____ (mm/dd/yyyy) Signed _____ (Manufacturer or Fabricator) by _____ (Authorized Representative)		
CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by _____ have inspected the piping described in this Manufacturer's Data Report and state that, to the best of my knowledge and belief, the manufacturer has constructed this piping in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the piping described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date _____ (mm/dd/yyyy) _____ (Authorized Inspector) Commission _____ (National Board Commission Number and Endorsement)		

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QUALITY MANUAL

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7. PROCESS CONTROLS

HOW WORK IS CARRIED OUT

7.1. OVERVIEW

The fabrication process plan defines how project work is to be done and approved for the overall project. The fabrication process plan is communicated to all key personnel, subcontractors and suppliers in a startup meeting. As the project proceeds, work task plans provide additional details of how each individual work task is carried out. Work tasks planning meetings are used to communicate expectations of the work task plan to key personnel responsible for carrying out the work task.

7.2. PROJECT STARTUP AND QUALITY CONTROL COORDINATION MEETING

Prior to the commencement of work, the Project Manager holds a meeting to discuss and coordinate how project work will be performed and controlled. Key personnel from [CompanyName], subcontractors and suppliers meet to review expectations for project quality results as well as quality assurance and quality control policies and procedures including:

- Key requirements of the project
- The Project Quality Assurance/Quality Control Plan
- Required quality inspections and tests
- The project submittal schedule
- Quality policies and heightened awareness of critical quality requirements
- Project organization chart and job responsibilities
- Methods of communication and contact information
- Location of project documents and records

7.3. PREPARATORY PROJECT QUALITY ASSURANCE/QUALITY CONTROL PLAN PLANNING

7.3.1. WORK TASK REQUIREMENTS REVIEW

In preparation for the start of an upcoming work task, the Superintendent reviews an integrated and coordinated set of documents that collectively define quality requirements for the work task including:

- Objectives and acceptance criteria of the work task
- Quality standards that apply to the work task
- Work instructions, process steps, and product installation instructions that apply to the work task
- Shop drawings
- Submittals
- Tools and equipment necessary to perform the work
- License, certification, or other qualification requirements of personnel assigned to work
- Required records of the process and resulting product
- The subcontractor contracted to perform the work, if applicable
- Customer contract requirements
- Required quality inspections and tests
- Method for clearly marking nonconformances to prevent inadvertent use
- Location of quality system records and documents
- Personnel training

7.3.2. PREPARATORY SITE INSPECTION

The Superintendent also performs a quality inspection of the work area and:

- Assesses completion of required prior work
- Verifies field measurements
- Assures availability and receiving quality inspection status of required materials
- Identifies any nonconformances to the requirements for the work task to begin
- Identifies potential problems

7.3.3. WORK TASK PREPARATORY QUALITY PLANNING MEETINGS

Prior to the start of a work task, the Superintendent conducts a meeting with key company, subcontractor personnel responsible for carrying out, supervising, or inspecting the work, and interested customer representatives.

During the meeting, the Superintendent communicates the work task quality requirements and reinforces heightened awareness for critical requirements. Topics for a work task quality plan meeting include:

- Conflicts that need resolution
- Required quality documents and a verification of availability to personnel carrying out, supervising, or inspecting the work task
- Record keeping requirements and the availability of necessary forms
- Review methods and sequences of installation
- Special details and conditions
- Standards of workmanship
- Heightened awareness of critical quality requirements
- Quality risks
- Work tasks quality inspection form

7.4. WEEKLY QUALITY PLANNING AND COORDINATION MEETINGS

The Superintendent conducts a meeting with key company, subcontractor and supplier personnel responsible for carrying out, supervising, or inspecting the work, and interested customer representatives.

9. NONCONFORMANCES AND CORRECTIVE ACTIONS

9.1. OVERVIEW

Should a nonconformance be identified by an inspection there is a systematic method to control the item, correct it, and ensure that project quality is not adversely impacted by the event.

A nonconformance is any item that does not meet project specifications or [CompanyName] Quality System requirements.

9.2. NONCONFORMANCES

9.2.1. MARKING OF NONCONFORMANCES AND OBSERVATIONS

When the Quality Manager, Superintendent, inspector, or customer identifies a nonconformance or an observation, the item is quickly and clearly marked by tape, tag, or other easily observable signal to prevent inadvertent cover-up.

9.2.2. CONTROL THE CONTINUATION OF WORK

After the item is marked, the Superintendent determines if work can continue in the affected area:

CONTINUE WORK: When continuing work does not adversely affect quality or hide the defect, work may continue in the affected area while the disposition of the item is resolved. The Superintendent may place limitations on the continuation of work.

STOP WORK ORDER: When continuing work can adversely affect quality or hide the defect, work must stop in the affected area until the disposition of the item resolved. The Superintendent identifies the limits of the affected area. The Superintendent quickly and clearly identifies the boundaries of the stop work area.

9.2.3. NONCONFORMANCE REPORT

9.2.3.1. RECORDING OF NONCONFORMANCES

If nonconformances or observed items exist by the work task completion inspection, the Superintendent or inspector records the nonconformances on a nonconformance report.

The Superintendent sends the nonconformance report to the Quality Manager.

9.2.3.2. QUALITY MANAGER DISPOSITION OF NONCONFORMANCE REPORTS

When the Quality Manager receives a Nonconformance Report, he or she makes an assessment of the affect the reported nonconformance has on form, fit, and function. The Quality Manager may assign a disposition of either:

LIST OF INCLUDED INSPECTION FORMS FOR WELDING

METALS

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

Selected Pages

Metals - Metal Railings 05.52.00

Project:	Phase:	Contract#:	Subcontractor:	Crew:
----------	--------	------------	----------------	-------

Compliance Verification

- ☐ 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:

FTQ 2TQ Heightened Awareness Checkpoints

- ☐ ☐ Shop applied primer and galvanizing intact and without blemishes
- ☐ ☐ Connecting bolts, washers, and nuts tight and clean of dirt/rust
- ☐ ☐ Welded connections continuous, even, clean, and free of blow holes or other irregularities
- ☐ ☐ Connecting hardware and welds primed with paint of the same quality as the shop coat
- ☐ ☐ Exposed welds ground smooth and flush with adjoining surfaces
- ☐ ☐ Exposed fasteners countersunk to provide a smooth surface
- ☐ ☐ Bases and stanchions level, plumb, and secure
- ☐ ☐ Railing system securely mounted and free of movement
- ☐ ☐ Railing parallels buildings and walking surface grade
- ☐ ☐ Railing free of burrs, crimps, and other surface irregularities

FTQ Scores and Completion Sign-off

Field Mgmt.-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: _____

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
On-Time Score
Safety Score

5 = 100% NO problems
5 = On Time
5 = 100% NO problems

4 = 1 minor problems
4 = Late
4 = 1 minor problem

3 = Hotspot or 2-3 minor
3 = Late by 1 day
3 = Hotspot or 2-3 minor

2 = 6+ or major problems
2 = Late by 2 days
2 = 4+ or major problem

1 = Excessive problems
1 = Late more than 2 days
1 = Injury

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**For More Information:
Contact: FirstTimeQuality**

410-451-8006

www.FirstTimeQuality.com

EdC@FirstTimeQuality.com