

Piping & Metals Fabrication Quality Manual Sample

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Sample includes:

- **✓** Quality Manual Pages
- **✓** Forms Examples

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[CompanyName]

Piping and Metals Fabrication Quality Manual

Operating Policies of the [CompanyName] Quality System

Effective Date: [Date]

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Approval Signature and Date: President/ Date	
The documents provided by [CompanyName] disclose registered. Please hold these quality documents in co	

organizations, even if you do not charge a fee.

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5. JOB-SPECIFIC QUALITY STANDARDS

APPLICABLE REGULATIONS, INDUSTRY, and COMPANY STANDARDS

5.1. OVERVIEW

[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.

5.2. REGULATORY CODES

All [CompanyName] fabrication activities comply with the relevant regulations. The Quality Manager identifies regulatory requirements applicable to the jurisdictions served, including:

- Applicable Federal regulations
- Applicable State regulations
- Applicable building codes and local addenda to building codes
- Applicable Fire Code
- Applicable Fuel and Gas Code
- Applicable Mechanical Code
- Applicable Plumbing Code
- Additional regulations specified by the customer contract

The Quality Manager identifies regulatory requirements that apply to a specific Job on the Job Quality Assurance/Quality Control Plan.

The Superintendent have access to relevant codes and government regulations.

5.3. INDUSTRY QUALITY STANDARDS

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

The Quality Manager identifies supplemental requirements for industry standards that apply to a specific Job on the Job Quality Assurance/Quality Control Plan when it is not otherwise specified by the contract, contract technical specifications, or approved drawings.

COMPLIANCE WITH INDUSTRY WELDING STANDARDS

Description	Reference Standard No.	Reference Standard Title
Minimum spacings and edge distances for screws	AISI SG02-KIT	North American Specification for the Design of Cold-Formed Steel Structural Members
Beveling, alignment, heat treatment, and inspection of weld	ASME B31.1	Power Piping
Requirements for piping of fluids	ASME B31.3	Process Piping
Welding standards	AWS B2.1/B2.1M	Specification for Welding Procedure and Performance Qualification
Workmanship and techniques for welded construction	AWS D1.1/D1.1M	Structural Welding Code – Steel
Installation of bracing and permanent bracing and bridging	CFSEI	Field Installation Guide for Cold-Formed Steel Roof Trusses
Installation of chimneys, vents, and smokestacks	NFPA 211	Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances
Framing and reinforcing openings through a steel deck	SDI DDP	Deck Damage and Penetrations
Install high-strength bolts		RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts"

5.4. JOB - SPECIFIC WELDING PROCEDURE STANDARDS

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

Welding procedures shall be qualified and approved, in accordance with the applicable AWS Welding Code(s) or Specification(s) (i.e., D1.1., D1.5) or AWS B2.1, Specification for Welding Procedure and Performance Qualification.

The welding procedure must identify the filler material.

When the governing AWS Welding Code(s) mandates that welding procedures be qualified by test, the Welding Fabricator shall have PQRs that support the applicable WPSs. When prequalified WPSs or Standard Welding Procedure Specifications (SWPSs) published by the AWS are permitted, PQRs are not required.

The Quality Manager or Certified Welding Inspector (CWI) reviews and approves the welding procedure before being used in production welding operations.

The WPSs and PQRs are controlled by the Quality Manager according by the document and record control procedures specified in the relevant section of this Quality Manual.

The applicable WPSs shall be available to welders or welding operators during testing and production welding.

5.5. MATERIAL AND EQUIPMENT SPECIFICATIONS

The Quality Manager ensures that all types of materials and equipment that affect quality are identified and controlled.

The Quality Manager evaluates the expected use of materials and equipment and identifies types of materials and equipment that may affect Job quality. For each item, the Quality Manager sets specifications for their intended use, including:

- Compliance to contract requirements
- Compliance to code and industry standards and listing requirements
- Structural integrity
- Performance
- Durability
- Appearance
- Product identification for traceability.

The Quality Manager identifies controlled material and equipment that apply to the Job.

The Quality Manager ensures that purchase orders for listed materials and equipment include the relevant specifications as specified in section 6.7 Purchase Order Requirements.

Only approved materials are used in the fabrication process.

5.6. WORK PROCESS SPECIFICATIONS

The Quality Manager ensures that work processes are controlled to ensure that the specified requirements are met. When appropriate, the Quality Manager will specify Job quality standards for work processes that may include:

- References to documented procedures such as manufacturer's installation instructions
- Procedures for carrying out process steps
- Methods to monitor and control processes and characteristics
- Acceptability criteria for workmanship
- Tools, techniques and methods to be used to achieve the specified requirements.

5.7. CONTROLLED MATERIAL IDENTIFICATION AND TRACEABILITY

The Quality Manager determines types of Job materials that require quality controls.

For each type of quality-controlled material, the Quality Manager determines lot control traceability requirements, if any, and specifies the means of lot identification. Identification methods may include physical labels, tags, markings and/or attached certification documents.

When lot-controlled materials are received, the Superintendent verifies that materials have the specified lot identifications.

The Superintendent maintains lot identification at all production phases from receipt, through production, installation, or assembly, to final completion. Acceptable methods for preserving lot identification include physically preserving observable lot identifications, recording the lot identification on a work task quality inspection form or other work record, or collecting the physical lot identifier as a record along with supplemented with location.

If lot-controlled materials are without lot identification, the Superintendent deems the materials as nonconforming and segregates them and/or clearly marks them to prevent inadvertent use. The Superintendent treats the material according to the company policy for nonconformances. Only the Quality Manager can re-identify or re-certify the materials.

5.8. Measuring Device Control and Calibration

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

For each type of device, the Quality Manager identifies:

- Restrictions for selection
- Limitations on use.
- Calibration requirements including the frequency of calibration. All calibrations must be traceable to national measurement standards.

When a measurement device is found not to conform to operating tolerances, the Quality Manager validates the accuracy of previous measurements.

5.9. [COMPANYNAME] QUALITY STANDARDS

[CompanyName] quality standards supplement contract requirements when they are necessary to ensure quality.

The Quality Manager identifies supplemental requirements for [CompanyName] Quality standards that apply to a specific Job on the Job Quality Assurance/Quality Control Plan.

When [CompanyName] quality standards differ from industry standards or product manufacturer instructions, the Quality Manager justifies that the standard reliably achieves quality results and then documents the justification.

All [CompanyName] fabrication activities conform to the company quality standards.

5.10. APPLICATION OF MULTIPLE SOURCES OF SPECIFICATIONS

Should multiple sources of specifications apply to a work task, the higher level of specification applies. When there are equal levels of specifications that conflict, the specifications are applied in this order:

- Submittals approved by the customer
- Contract technical specifications
- Contract drawings
- Government regulations that exceed requirements of items below
- [CompanyName] quality specifications, including subcontract specifications
- [CompanyName] Quality Manual
- Product installation instructions
- Industry standards
- Generally accepted practices

Should multiple sources of conflicting specifications apply to a Job, the Quality Manager defines the standards that apply to the specific Job on the Job Quality Assurance/Quality Control Plan.

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 Job quality is not adversely impacted by the event.

A nonconformance is any item that does not meet Job 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 assesses the affect the reported nonconformance has on form, fit, and function. The Quality Manager may assign a disposition of either:

REPLACE: The nonconformance can be brought into conformance with the original specification requirements by replacing the nonconforming item with a conforming item.

REPAIR: The nonconformance can be brought into conformance with the original requirements through completion of required repair operations.

REWORK: The nonconformance can be made acceptable for its intended use, even though it is not restored to a condition that meets all specification requirements. The Quality Manager may specify

standards that apply to the completion of rework. Rework nonconformances must be approved by the customer.

USE AS-IS: When the nonconforming item is satisfactory for its intended use. Any use as-is items that do not meet all specification requirements must be approved by the customer.

9.2.4. CORRECTION OF NONCONFORMANCES

The Superintendent verifies that corrective actions eliminate the nonconformance to the requirements of the original specifications or as instructed by the disposition of the nonconformance report, and then removes, obliterates, or covers the nonconformance marker.

Furthermore, the Superintendent ensures that previously completed work is reinspected for similar nonconformances and corrective actions are taken to avert future occurrences (see section 9.3 Corrective Actions).

9.3. CORRECTIVE ACTIONS

9.3.1. CONTROL OF CORRECTIVE ACTIONS

When a nonconformance is found, the Superintendent ensures that:

- Previously completed work is reinspected for similar nonconformances
- Corrective actions are taken to avert future occurrences

The Quality Manager identifies requirements for corrective actions with respect to frequency, severity, and detectability of quality nonconformances items found during and after completion of work activities.

When a solution requires changes to [CompanyName] quality standards, the Quality Manager makes modifications as necessary by making changes to:

- Material specifications
- Personnel qualifications
- Subcontractor and Supplier qualifications
- Company standards
- Inspection processes

9.3.2. CORRECTIVE ACTION TRAINING

The Superintendent initiates corrective action training to address quality nonconformances. Personnel and subcontractors and suppliers performing or inspecting work participate in the training.

Heightened awareness during quality inspections verifies and documents compliance with the corrective action improvement items. A qualified Superintendent inspects corrective actions during regular quality inspections and records observations on the quality inspection form.

The Superintendent notifies affected subcontractors and suppliers of selected preventive action training requirements.

The Superintendent evaluates the effectiveness of the improvements. The Quality Manager reviews improvement results recorded on quality inspection records and monthly field reviews. When the Quality Manager determines that the improvement actions are effective, the item is no longer treated as a preventive action.

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Form QW-483 Welding Procedure Qualification Record

Company Name	
WPS No	Date
Welding Process(es)	
Types (Manual, Automatic, Semi-Automatic)	
JOINTS (QW-402)	
	lesign of Test Coupon
	al thickness shall be recorded for each filler metal and process used.)
BASE METALS (OW-403) Material Spec.	POSTWELD HEAT TREATMENT (OW-407) Temperature
Type/Grade, or UNS Number	Time
P-No Group No to P-No Group No	
Thickness of Test Coupon	
Diameter of Test Coupon	
Maximum Pass Thickness	
Other	
	GAS (QW-408)
	Percent Composition Gas(es) (Mixture) Flow Rate
	Shielding
FILLER METALS (QW-404) 1 2	Trailing
SFA Specification AWS Classification	Backing Other
Filler Metal F-No.	Other
Weld Metal Analysis A-No.	ELECTRICAL CHARACTERISTICS (QW-409)
Size of Filler Metal	Current
Filler Metal Product Form	Polarity
Supplemental Filler Metal	Amps Volts
Electrode Flux Classification	Tungsten Electrode Size
Flux Type	Mode of Metal Transfer for GMAW (FCAW)
Flux Trade Name	Heat Input
Weld Metal Thickness	Other
Other	-
POSITION (OW-405)	TECHNIQUE (OW 410)
Position of Groove	TECHNIQUE (QW-410) Travel Speed
Weld Progression (Uphill, Downhill)	String or Weave Bead
Other	Oscillation
	Multipass or Single Pass (Per Side)
	Single or Multiple Electrodes
PREHEAT (QW-406)	Other
Preheat Temperature	–
Interpass Temperature	— I
Other	

QW-483 (Back)								
Tensile Test (QW-150) PQR No								
Specimen No.	Width	Thickr	nickness Area		rea	Ultimate Total Load	Ultimate Unit Stress, (psi or MPa)	Type of Failure and Location
	Guided-Bend Tests (QW-160)							
	Type and Fig	ure No.					Result	
					+			
			Tougl	nness 1	Tests (QV	V-170)		,
Specimen	Notch	Specimen	Test			Impact Values	9	
No.	Location	Size	Tempera	ture	ft-lb or J	% Shear	Mils (in.) or mm	Drop Weight Break (Y/N)
				_				
				_				
				+				
				\top				
Comments								
	_		Fillet	-Weld	Test (QV	/-180)	_	
Result — Satisfactory:		No			Penet	ration into Parent N	Metal: Yes	No
Macro — Results) 				
		10		Othe	er Tests			
Type of Test		-						
Deposit Analysis Other		71						
Welder's Name						Clock No		Stamp No
Tests Conducted by	Welder's Name Clock No Stamp No Tests Conducted by Laboratory Test No							
We certify that the stat requirements of Section						e prepared, welded	d, and tested in accor	dance with the
. Squirements or Section	on an or are morne	Danier and Fi				or		
			.,,,,,,,,,					
Date (Detail of record of tes	ts are illustrative o	only and may	be modifi	ied to co			of tests required by	
03/08								

http://files.asme.org/asmeorg/Codes/Publications/BPVC/14033.pdf

Form N-1 Welding Procedure Specification Prequalification

ANNEX N		AWS D1.1/D1.1M:2010
PREQUALIFIED	SPECIFICATION (WPS) Yes QUALIFIED BY TESTING ATION RECORDS (PQR) Yes	
	Identification #	
	Revision Date	Ву
Company Name	Authorized by	Date
Welding Process(es) Supporting PQR No.(s)	Type—Manual Mechanized	Semiautomatic Automatic
Supporting FQH No.(s)	Mechanized	Automatic
JOINT DESIGN USED	POSITION	
Type:	Position of Groove:	Fillet:
Single Double Weld Backing: Yes No No	Vertical Progression: Up Do	own
Backing: Yes No Backing Material:	ELECTRICAL CHARACTERISTIC	CS.
Root Opening Root Face Dimension		
Groove Angle: Radius (J–U) Back Gouging: Yes No Method	Transfer Mode (GMAW) Short	rt-Circuiting
Back Gouging: Yes No Method Method	Glob Current: AC DCEP DCEP	ular Spray D
BASE METALS	Power Source: CC QV	Fuised
Material Spec.	Other	
Type or Grade	Tungsten Electrode (GTAW)	
Thickness: Groove Fillet Diameter (Pipe)	Size: Type:	_
Diameter (Fipe)	Туре.	_
FILLER METALS	TECHNIQUE	
AWS Specification	Stringer or Weave Bead:	
AWS Classification	Multi-pass or Single Pass (per sid Number of Electrodes	
	Electrode Spacing Long	gitudinal
SHIELDING	Late	ral
Flux Gas	Angl	e
Composition Electrode-Flux (Class) Flow Rate	Contact Tube to Work Distance _ Peening	
Gas Cup Size	Interpass Cleaning:	
PREHEAT	POSTWELD HEAT TREATMENT	
Preheat Temp., Min. Max.	Temp	
	G PROCEDURE	
Pass or	current	
Weld Layer(s) Process Class Diam. Polarity	Amps or Wire Travel Feed Speed Volts Speed	Joint Details
	Total Spood	Communication Co
Form N-1 (Front)		
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	354	

ANNEX N AWS D1.1/D1.1M:2010							
Procedure Qualification Record (PQR) #							
	Test Results						
Specimen	Specimen Width Thickness Area Ultimate Tensile Ultimate Unit Character of Failure					Character of Failure	
No.	***************************************	THORITOGO	71100	Load, lb	Stress, psi	and Location	
			GUIDE	D BEND TEST			
Specimen No.	Type of Bo	end	Result		Remarks		
					A	•	
VISUAL INSPE Appearance				Radiographic	Itrasonic examinatio		
Undercut					Resu Resu		
Piping porosity Convexity				FI	LLET WELD TEST F	RESULTS	
Test date					multiple pass Maxim		
Witnessed by_				Macroetch 1.	Macroi 1 2.	3	
Other Tests				All-weld-metal			
				Tensile strengtl	n, psi		
					ngth, psi in, %		
		- (
Welder's name				Clock no.	Stam	p no	
Tests conducte	d by	(()		Testeropher	Labo		
				Per			
We, the unders	igned, certify	that the state	nents in this rec	ord are correct and tha	t the test welds were	prepared, welded, and	
				AWS D1.1/D1.1M, (Welding Code—Steel.	
SignedManufacturer or Contractor							
Ву							
Form N-1 (Back)				- July			
· Omite-1 (Dack)							
				358			

http://www.aws.org/technical/forms/N-1.pdf

Work		nyName] ance/Quality Contro	ol Plan
Job ID	Job Name	Preparer	Date
[JobNumber]	[JobName]		
Work Task:		Performing Department/Crew/Subcontr	ractor and Supplier:
Licensing / certification / qualification performing organization:	n requirements of personnel or	Work Task acceptance criteria:	
Reference documents (contract spec	ifications, contract drawings, submittals, c	quality standards, work instructions, produ	ct installation instructions)
ID#	Title or Description	on	Version / Issue Date
		\bigcirc	
]
Required Inspections, process contro	ls, and Tests		
ID # Inspection	Protocol / Test Points	Acceptance	e Criteria
		-	
Required records of work ta	sk process and completion		
·	·		

[CompanyName] Metals Material Receiving Inspection Report						
Job ID	Job Name	P.O.#	Supplier	Receipt Date		
[JobNumber]	[JobName]					
Type of Material (i.e., steel plate)	Material Description (nominal dimensions)	Heat Number/ Serial Number/Markings	Condition / Damage	Color Code Marking		
		0,				
Receiving Inspector A	pproval Signature / Date		Representative proval Date			
	68			☐ Material Receiving Inspection Passed		

[CompanyName] Inspection and Test Report								
Inspection Report ID #	Job ID	Job Name		Preparer Signature		Date		
	[JobNumber]	[JobName]		6				
Work Activity:			Item inspected and/or tested:					
Ref#	Specification reference documents (titles or description with version/date)							
Inspection/Test Record (additional items on next page)								
Inspection/ Test/ ID #	Inspection/Test Points/Location	-	Test Res	sult, Nonconformance Non-conf Dispo			Corrections Made / Final Acceptance	
			ZČ ^(C)		rework/reject/Non- conformance Report		Initial	Date
Acceptance of completed work activity (sign and date)								
Inspector/Tester Subcontractor ar			ubcontractor and S	Supplier/Supplier	Superintendent			



For More Information:

Visit our Online Store at:

www.firsttimequalityplans.com

or

Contact: First Time Quality 410-451-8006

edc@firsttimequality.com