



## HVAC Comprehensive Project-specific Quality Plan

Selected pages (not a complete plan or manual)

Sample includes:

- ✓ Project Quality Plan Pages
- ✓ Submittal Forms Examples
- ✓ Inspection Checklist Forms Examples

Contact:

First Time Quality

410-451-8006

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Questions? Call First Time Quality 410-451-8006

**[CompanyName]**

## Quality Assurance/Quality Control Plan

[ProjectName]  
[ProjectNumber]

Management acceptance

This Construction Quality Assurance/Quality Control Plan has been reviewed and accepted.

Endorsed By: (Name / Title)	[QualityManagerName], Quality Manager		
Signature:	<i>[QualityManagerName]</i>	Date:	[Date]
Version	1.0	Notes	Initial Issue

The documents provided by [CompanyName] disclose proprietary company information that is copyright registered. Please hold these quality documents in confidence and do not share them with other organizations, even if you do not charge a fee.

## SIGNATURE SHEET

### Plan Preparer

This [CompanyName] Project Quality Control Plan was prepared in accordance with the contract specifications and requirements of the [CompanyName] quality system and approved by:

*[QualityManagerName]* / [Date]

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[QualityManagerName], Quality Manager /Date

### Approval by Company Officer

This [CompanyName] Project Quality Control Plan is approved by:

*[SeniorManagerName]* / [Date]

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[SeniorManagerName] President /Date

### Plan Concurrence

[CompanyName] Project Quality Control Plan concurrence by:

*[ProjectManagerName]* / [Date]

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[ProjectManagerName], Project Manager /Date

*[SuperintendentName]* / [Date]

---

[SuperintendentName], Superintendent /Date

# PROJECT-SPECIFIC HVAC QUALITY PLAN

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## F. PERSONNEL QUALIFICATIONS AND TECHNICAL CERTIFICATIONS

[CompanyName] ensures that only knowledgeable, capable employees carry out the planning, execution, and control of the project.

We train our employees on quality standards and procedures based on project requirements as well as their job positions. Then we validate their capabilities before they are assigned to carry out their quality job responsibilities on the project. Ongoing monitoring of performance continually validates qualifications of each employee.

The Quality Manager qualifies employee capabilities to ensure that they are capable of completely carrying out their assigned quality responsibilities including the following capabilities:

- Knowledge of Company quality standards
- Knowledge of job responsibilities and authority
- Demonstrated skills and knowledge
- Demonstrated ability
- Demonstrated results
- Required training
- Required experience

The Quality Manager also evaluates independent contractor personnel on the same standards that apply to employees.

### PERSONNEL CERTIFICATION REQUIREMENTS

Personnel certifications are required for the following:

Certification or License Title	Reference Standard No.	Reference Standard Title
Welders to structural steel	AWS D1.1/D1.1M	Structural Welding Code - Reinforcing Steel
Welders for boilers and associated piping	ASME BPVC SEC IX	BPVC Section IX-Welding and Brazing Qualifications
Refrigerant Recovery Technician	EPA 608	ASE Automotive Service Excellence

# I. HVAC 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 construction.

[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] construction activities comply with generally accepted good workmanship practices and industry standards.

## COMPLIANCE WITH INDUSTRY HVAC STANDARDS

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

Description	Reference Standard No.	Reference Standard Title
Installation of underground ductwork	ACCA Manual 4	Installation Techniques for Perimeter Heating & Cooling
Ductwork cleaning	ASHRAE 62.1	Ventilation for Acceptable Indoor Air Quality
Color coding of all piping systems	ASME A13.1	Scheme for the Identification of Piping Systems
Field welded joints	ASME B31.3	Process Piping
Soldered joints	ASME B31.5	Refrigeration Piping and Heat Transfer Components
Installation of radon ductwork	ASTM D 2855	Standard Practice for Making Solvent-Cemented Joints with Poly(Vinyl Chloride) (PVC) Pipe and Fittings
Brazed joints	AWS B2.2/B2.2M	Specification for Brazing Procedure and Performance Qualification
Radiant floor heating system installation	HYI-400	Radiant Floor Heating
Fuel oil system installation	NFPA 31	Standard for the Installation of Oil-Burning Equipment
Installation of air terminal units	NFPA 90A	Standard for the Installation of Air Conditioning and Ventilating Systems
Installation of metal ductwork	SMACNA 1966	HVAC Duct Construction Standards Metal and Flexible
Installation of duct supports for sheet metal ductwork	SMACNA 1966	HVAC Duct Construction Standards Metal and Flexible

## **J. MATERIAL INSPECTION TRACEABILITY AND QUALITY CONTROLS**

Products and materials are controlled to assure the use of only correct and acceptable items. Controls include identification of the inspection status. Materials that require lot control traceability and the method of traceability are listed on the Controlled Materials form included as an exhibit in this subsection.

### **IDENTIFICATION OF LOT CONTROLLED MATERIALS**

The Quality Manager determines types of project 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.

### **MATERIAL RECEIVING AND INSPECTION**

When lot-controlled materials are received, the Operations Manager inspects the materials and verifies that materials have the specified lot identifications. Received materials are listed on the Material Receiving and Inspection Report form or Metals Materials Receiving and Inspection form included as an exhibit in this subsection.

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.





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[CompanyName] Metals Material Receiving Inspection Report				
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		
				<input type="checkbox"/> Material Receiving Inspection Passed

Selected Pages

[CompanyName] Material Inspection and Receiving Report								
Contract ID	Contract Name	Purchase Order No.	Supplier			Bill of Lading No.	Date	
[ProjectNumber]	[ProjectName]							
Item No.	Stock/Part No.	Description	Quantity Received	Condition	Marking	Accept	Conditional Use	Reject
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Receiving Quality Control								
<p>ACCEPTANCE</p> <p>Listed items have been accepted by me or under my supervision</p> <p><input type="checkbox"/> Conform to contract specifications EXCEPT as noted herein or on supporting documents.</p> <p><input type="checkbox"/> Received in apparent good condition EXCEPT as noted</p> <p>Signature of authorized person and date: _____</p>								
EXCEPTIONS:								

## M. CONTROL OF CORRECTIONS 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. If 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.

### 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.

### 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.

### 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.

## **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.

## **CORRECTIVE ACTIONS**

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).

### **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

### **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.

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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.

### **NONCONFORMANCE PREVENTIVE ACTIONS**

Fixing problems found during quality inspections is not sufficient. Systematic prevention of recurrences is essential for improving quality.

[CompanyName] makes changes to solve the problem. Solutions may involve a combination of enhanced process controls, training, upgrade personnel qualifications, improved processes, or use of higher-grade materials.

Follow-up ensures that a problem is completely resolved. If problems remain, the process is repeated.

Selected Pages

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

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## **INSPECTION CHECKLIST**

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**Air Terminal Units 23.36.00**  
**Breechings// Chimneys// and Stacks 23.51.00**  
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**Commissioning of HVAC 23.08.00**  
**Cooling Towers 23.65.00**  
**Facility Fuel-Oil Piping 23.11.13**  
**Facility Fuel-Storage Tanks 23.13.00**  
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**HVAC Piping and Pumps 23.20.00**  
**HVAC Water Treatment 23.25.00**  
**Indoor Central-Station Air-Handling Units 23.73.00**  
**Instrumentation and Control for HVAC 23.09.00**  
**Refrigerant Piping 23.23.00**  
**Testing// Adjusting// and Balancing for HVAC 23.05.93**

Selected Pages



## HVAC Ductwork 23.31.00

Project:	Phase:	Contract#:	Subcontractor:	Crew:
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<p><b><u>Compliance Verification</u></b></p> <p><input type="checkbox"/> Compliance with initial job-ready requirements</p> <p><input type="checkbox"/> Compliance with material inspection and tests</p> <p><input type="checkbox"/> Compliance with work in process first article inspection requirements</p> <p><input type="checkbox"/> Compliance with work in process inspection requirements</p> <p><input type="checkbox"/> Compliance with Task completion inspection requirements</p> <p><input type="checkbox"/> Compliance with inspection and test plan</p> <p><input type="checkbox"/> Compliance with safety policies and procedures</p> <p>Reported Nonconformances and incomplete items:</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">YES</th> <th style="width: 10%;">NO</th> <th style="width: 80%;"><u>Heightened Awareness Checkpoints</u></th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Ducts and Casings through penetrations maintains fire rating of structure</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Ducts and Casings pressure tested</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Cleaning and maintenance openings accessible</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Ducts and Casings adequately supported to prevent sagging and stress</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Ducts and Casings protected from chafe at all supports// clamps// and contact points</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>All joints are sealed</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Registers// grills// and diffusers are compatible with wall and ceiling systems</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Flexible duct connectors are unpainted</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Ducts and Casings clean of dirt// dust// rubbish// and debris</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Filters installed and clean</td> </tr> </table>	YES	NO	<u>Heightened Awareness Checkpoints</u>	<input type="checkbox"/>	<input type="checkbox"/>	Ducts and Casings through penetrations maintains fire rating of structure	<input type="checkbox"/>	<input type="checkbox"/>	Ducts and Casings pressure tested	<input type="checkbox"/>	<input type="checkbox"/>	Cleaning and maintenance openings accessible	<input type="checkbox"/>	<input type="checkbox"/>	Ducts and Casings adequately supported to prevent sagging and stress	<input type="checkbox"/>	<input type="checkbox"/>	Ducts and Casings protected from chafe at all supports// clamps// and contact points	<input type="checkbox"/>	<input type="checkbox"/>	All joints are sealed	<input type="checkbox"/>	<input type="checkbox"/>	Registers// grills// and diffusers are compatible with wall and ceiling systems	<input type="checkbox"/>	<input type="checkbox"/>	Flexible duct connectors are unpainted	<input type="checkbox"/>	<input type="checkbox"/>	Ducts and Casings clean of dirt// dust// rubbish// and debris	<input type="checkbox"/>	<input type="checkbox"/>	Filters installed and clean
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<input type="checkbox"/>	<input type="checkbox"/>	Filters installed and clean																																

### 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 verified complete and in compliance with contract drawings and specifications except for non-conformances and incomplete items reported above.

<b><u>Quality Score</u></b>	5 = 100% NO problems	4 = 1 minor problem	3 = Hotspot or 2-3 minor	2 = 6+ or major problems	1 = Excessive problems
<b><u>On-Time Score</u></b>	5 = On Time	4 = Late	3 = Late by 1 day	2 = Late by 2 days	1 = Late more than 2 days
<b><u>Safety Score</u></b>	5 = 100% NO problems	4 = 1 minor problem	3 = Hotspot or 2-3 minor	2 = 4+ or major problem	1 = Injury

## HVAC Insulation 23.07.00

Project:	Phase:	Contract#:	Subcontractor:	Crew:
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<u>Compliance Verification</u>	<u>YES</u>	<u>NO</u>	<u>Heightened Awareness Checkpoints</u>
<input type="checkbox"/> Compliance with initial job-ready requirements	<input type="checkbox"/>	<input type="checkbox"/>	Ductwork// equipment// and piping tested and operational before applying Insulation
<input type="checkbox"/> Compliance with material inspection and tests	<input type="checkbox"/>	<input type="checkbox"/>	Area to be insulated is free of rust// scale// dirt// and moisture
<input type="checkbox"/> Compliance with work in process first article inspection requirements	<input type="checkbox"/>	<input type="checkbox"/>	Adhesive/Anchors/Staples/Wrapping utilized is compatible with Insulation type
<input type="checkbox"/> Compliance with work in process inspection requirements	<input type="checkbox"/>	<input type="checkbox"/>	Insulation through penetrations maintains fire rating of structure
<input type="checkbox"/> Compliance with Task completion inspection requirements	<input type="checkbox"/>	<input type="checkbox"/>	Insulation protected from chafe at all supports and contact points
<input type="checkbox"/> Compliance with inspection and test plan	<input type="checkbox"/>	<input type="checkbox"/>	Insulation protected from weathering and moisture intrusion
<input type="checkbox"/> Compliance with safety policies and procedures	<input type="checkbox"/>	<input type="checkbox"/>	Underlying access openings/inspection ports still accessible
Reported Nonconformances and incomplete items:			Insulation joints sealed
			Cladding applied in high abuse/traffic areas
			Openings/Holes caused by testing closed/repaired

### 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 verified complete and in compliance with contract drawings and specifications except for non-conformances and incomplete items reported above.

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<u>On-Time Score</u>	5 = On Time	4 = Late	3 = Late by 1 day	2 = Late by 2 days	1 = Late more than 2 days
<u>Safety Score</u>	5 = 100% NO problems	4 = 1 minor problem	3 = Hotspot or 2-3 minor	2 = 4+ or major problem	1 = Injury



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**or**

**Contact: First Time Quality**

**410-451-8006**

**[edc@firsttimequality.com](mailto:edc@firsttimequality.com)**