



Welding Inspection Checklist

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Pre-Welding Inspection

Verifies preparation and conditions *before* welding begins.

Joint Thickness (min/max)

Enter a number...

Root Gap (inches/mm)

Enter a number...



Bevel Angle (degrees)

Joint Type

- ☐ Butt
- ☐ Fillet
- ☐ Corner
- ☐ Lap

Surface Conditions

- ☐ Clean
- ☐ Rust
- ☐ Mill Scale
- ☐ Paint
- ☐ Contamination

Notes on Surface Conditions/Preparation

Pre-Weld Photo(s)

 Upload File

Date of Pre-Weld Inspection

Welder Qualification & Documentation

Confirms welder credentials and related paperwork are current and compliant.

Welder ID Number

Welding Process Qualification

- ☐ SMAW (Stick)
- ☐ GMAW (MIG)
- ☐ GTAW (TIG)
- ☐ FCAW (Flux-Cored)
- ☐ Other (Specify in Long Text)

If 'Other' Process Selected, Specify:

Qualification Expiration Date

Welder Qualification Certificate (PDF/Image)

 Upload File

Current Status

- ☐ Active
- ☐ Inactive
- ☐ Suspended

Hours Welded for Qualification

Enter a number...

Material Verification

Ensures correct material types, grades, and dimensions are used.

Material Thickness (inches/mm)

Enter a number...

Material Grade

- ☐ A36
- ☐ A572 Grade 50
- ☐ ASTM 1018
- ☐ Other (Specify)

Material Specification (e.g., ASTM A36)

Write something...

Material Traceability Information (Heat Number, etc.)

Write something...

Material Coating (if applicable)

- ☐ None
- ☐ Galvanized
- ☐ Painted
- ☐ Other (Specify)

Coating Type (if applicable)

Write something...

Joint Preparation

Checks joint surfaces for cleanliness, bevel angle, root gap, and any imperfections.

Root Gap (mm)

Bevel Angle (degrees)

Surface Cleanliness Rating (1-5, 1=Poor, 5=Excellent)

Cleaning Method Used

- ☐ Grinding
- ☐ Wire Brushing
- ☐ Sandblasting
- ☐ Mechanical Cleaning
- ☐ Chemical Cleaning

Notes on Joint Condition/Preparation

Write something...

Joint Preparation Photos (Pre-Weld)

 Upload File

Joint Type

- ☐ Butt
- ☐ Lap
- ☐ T-Joint
- ☐ Corner Joint

Welding Procedure Specification (WPS) Compliance

Confirms the welding process adheres to the specified WPS requirements.

WPS Number Verified?

- ☐ Yes
- ☐ No
- ☐ N/A

Welding Process (e.g., SMAW, GMAW, GTAW)

- ☐ SMAW
- ☐ GMAW
- ☐ GTAW
- ☐ Other

Preheat Temperature (°C)**Interpass Temperature (°C)****Welding Current (Amps)****Shielding Gas Type (If applicable)**

- ☐ Argon
- ☐ CO2
- ☐ Argon/CO2 Mix
- ☐ Other
- ☐ Not Applicable

Notes on WPS Compliance Observations

Visual Weld Inspection (During & After)

Detailed visual examination of the weld for defects and adherence to acceptance criteria.

Weld Bead Width (mm)

Weld Bead Height (mm)

Undercut Depth (mm)

Overlap (mm)

Weld Profile (Cross-Section)

- ☐ Convex
- ☐ Concave
- ☐ Flat
- ☐ Other - Specify Below

Describe Other Weld Profile (if selected)

Write something...

Presence of Slag Inclusions

- ☐ Yes
- ☐ No
- ☐ Uncertain

Describe any Weld Defects Observed (e.g., porosity, cracks, etc.)

Write something...

Upload Weld Photographs (Front, Side, Cross-Section)

 Upload File

Overall Weld Appearance (General Condition)

Write something...

Non-Destructive Testing (NDT)

Includes various NDT methods such as Radiography, Ultrasonic Testing, Magnetic Particle Testing, and Liquid Penetrant Testing, as required.

NDT Method Performed

- ☐ Visual Testing (VT)
- ☐ Radiographic Testing (RT)
- ☐ Ultrasonic Testing (UT)
- ☐ Magnetic Particle Testing (MT)
- ☐ Liquid Penetrant Testing (PT)
- ☐ Other (Specify)

Description of NDT Procedure Used

Write something...

NDT Results Report (e.g., RT film, UT data)

 Upload File

UT Scan Angle (Degrees)

Enter a number...

RT Exposure Time (Seconds)

Enter a number...

Acceptance Criteria Used

- ☐ ASME Section V
- ☐ AWS D1.1
- ☐ Project Specification
- ☐ Other (Specify)

Details of any Indications Found (Size, Location, Type)

Write something...

Disposition of Indications

- ☐ Acceptable
- ☐ Repair
- ☐ Reject

Post-Weld Heat Treatment (PWHT)

Verifies proper PWHT procedures if required by the design or specification.

Maximum Heating Rate (°C/hr or °F/hr)

Enter a number...

Soaking Temperature (°C or °F)

Enter a number...

Soaking Time (Hours)

Enter a number...

Cooling Rate (°C/hr or °F/hr)

Enter a number...

Heating Method

- ☐ Furnace
- ☐ Induction
- ☐ Flame
- ☐ Other (Specify in LONG_TEXT)

Details of 'Other' Heating Method (if selected above)

Write something...

Start Date/Time of PWHT**End Date/Time of PWHT****Any deviations from the specified PWHT procedure?****PWHT Inspector Signature**

Documentation & Record Keeping

Ensures all inspection results, welder certifications, WPS, and other relevant documents are properly recorded and maintained.

Welding Inspection Date

Welding Completion Date

Enter date...

WPS Number Used

- ☐ WPS-001
- ☐ WPS-002
- ☐ WPS-003
- ☐ Other (Specify in Long Text)

Notes/Comments on WPS Application (If 'Other' selected above)

Write something...

Welder Qualification Certificates

 Upload File

WPS Document (Copy)

 Upload File

Inspection Results Summary

Write something...

Inspector Signature

Inspector Name (Printed)

Write something...