

Welding Inspection Checklist

Pre-Welding Inspection

Verifies preparation and conditions *before* welding begins.

Joint Thickness (min/max)

Root Gap (inches/mm)

Bevel Angle (degrees)

Joint Type

- Butt
- Fillet
- Corner
- Lap


Surface Conditions

- Clean
- Rust
- Mill Scale
- Paint
- Contamination

Notes on Surface Conditions/Preparation

Write something...

Pre-Weld Photo(s)

 Upload File

Date of Pre-Weld Inspection

Enter date...

Welder Qualification & Documentation

Confirms welder credentials and related paperwork are current and compliant.

Welder ID Number

Enter a number...

Welding Process Qualification

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


If 'Other' Process Selected, Specify:

Write something...

Qualification Expiration Date

Enter 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)

Material Grade

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

Material Specification (e.g., ASTM A36)

Material Traceability Information (Heat Number, etc.)

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)

Enter a number...

Bevel Angle (degrees)

Enter a number...

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

Enter a number...


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)

Enter a number...

Interpass Temperature (°C)

Enter a number...

Welding Current (Amps)

Enter a number...

Shielding Gas Type (If applicable)

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

Notes on WPS Compliance Observations

Write something...

Visual Weld Inspection (During & After)

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

Weld Bead Width (mm)

Enter a number...

Weld Bead Height (mm)

Enter a number...

Undercut Depth (mm)

Enter a number...

Overlap (mm)

Enter a number...

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)

Soaking Temperature (°C or °F)

Soaking Time (Hours)

Cooling Rate (°C/hr or °F/hr)

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

Enter date...

End Date/Time of PWHT

Enter date...

Any deviations from the specified PWHT procedure?

Write something...

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

Enter a number...

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)