



# 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)

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)

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)**