

# Welding Inspection Checklist

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## Pre-Welding Inspection

Verifies preparation and conditions \*before\* welding begins.

### Joint Thickness (min/max)

### Root Gap (inches/mm)



### Bevel Angle (degrees)

Enter a number...

### 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

## 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)

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)**

**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**

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)**

Write something...