

Welding Quality Checklist

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Pre-Weld Preparation

Checks related to material preparation, joint design, and cleaning prior to welding.

Joint Type Verified (e.g., Butt, Lap, Fillet)

- ☐ Butt
- ☐ Lap
- ☐ Fillet
- ☐ T-Joint
- ☐ Corner
- ☐ Other

Material Cleanliness (e.g., Rust, Oil, Scale)

- ☐ Clean
- ☐ Slight Contamination
- ☐ Significant Contamination - Requires Cleaning



Joint Gap (mm)

Enter a number...

Material Thickness (mm)

Enter a number...

Notes on Joint Preparation

Write something...

Photo of Joint Before Welding (Optional)

 Upload File

Root Pass Preparation (if applicable)

- ☐ Backing Bar Used
- ☐ Hot Pass Used
- ☐ No Root Pass Prep Required

Welding Procedure Adherence

Verification of compliance with specified welding procedures (WPS).

WPS Number Verified?

- ☐ Yes
- ☐ No
- ☐ Not Applicable

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

- ☐ Yes, Matches WPS
- ☐ No, Deviation Required (Documented)
- ☐ Not Applicable

Welding Current (Amps) - Verified?

Welding Voltage (Volts) - Verified?

Travel Speed (inches/minute) - Verified?

Shielding Gas Type Verified?

- ☐ Yes, Matches WPS
- ☐ No, Deviation Required (Documented)
- ☐ Not Applicable

Any Deviations from WPS? If Yes, Detail Below:

Write something...

Upload WPS Document (for reference)

 Upload File

Weld Appearance & Profile

Assessment of weld bead characteristics and surface quality.

Weld Bead Profile

- ☐ Convex
- ☐ Concave
- ☐ Flat
- ☐ Undercut
- ☐ Other (Specify in LONG_TEXT)

Details regarding profile (if 'Other' selected)

Write something...

Undercut Present?

☐ Yes

☐ No

Undercut Description (if Yes)

Write something...

Porosity Observed?

☐ Yes

☐ No

Porosity Description (if Yes)

Write something...

Slag Inclusion Present?

- ☐ Yes
- ☐ No

Slag Inclusion Description (if Yes)

Write something...

Weld Bead Width (mm)

Enter a number...

Weld Appearance Photos

 Upload File

Dimensional Accuracy

Checks related to weld size, throat thickness, and alignment to design specifications.

Weld Size (mm/inches)

Enter a number...

Throat Thickness (mm/inches)

Enter a number...

Root Opening (mm/inches)

Enter a number...

Weld Offset (mm/inches)

Enter a number...

Actual Weld Length (mm/inches) - Compared to Design

Enter a number...

Alignment Verification (Vertical/Horizontal/Angular)

- ☐ Vertical
- ☐ Horizontal
- ☐ Angular

Angular Misalignment (degrees) - If Applicable

Enter a number...

Joint Fit-Up

- ☐ Correct
- ☐ Minor Adjustment Needed
- ☐ Major Adjustment Needed

Notes/Discrepancies related to Dimensional Accuracy

Write something...

Non-Destructive Testing (NDT)

Results and documentation of NDT methods applied (e.g., visual inspection, dye penetrant, radiography, ultrasonic).

Visual Inspection Method

- ☐ ASME Section V
- ☐ AWS D1.1
- ☐ Company Standard
- ☐ Other (Specify in LONG_TEXT)

Visual Inspection Notes/Observations

Write something...

Dye Penetrant Inspection Performed?

☐ Yes

☐ No

Dye Penetrant Penetration Time (seconds)

Enter a number...

Dye Penetrant Development Time (minutes)

Enter a number...

Radiographic Testing Performed?

☐ Yes

☐ No

Radiography Images (if performed)

 Upload File

Radiography Interpretation Notes (if performed)

Write something...

Ultrasonic Testing Performed?

☐ Yes

☐ No

Ultrasonic Scan Angle (degrees)

Enter a number...

Destructive Testing (DT) (if applicable)

Results and documentation of DT methods applied (e.g., tensile testing, bend testing).

DT Method Performed

☐ Tensile Test

☐ Bend Test (Room Temperature)

☐ Bend Test (Heat Treated)

☐ Impact Test

☐ Macroetch

☐ Other (Specify in LONG_TEXT)

DT Method Specification (e.g., ASTM, AWS)

Write something...

Tensile Strength (MPa/psi)

Enter a number...

Elongation (%)

Enter a number...

Bend Angle (degrees) - Room Temperature

Enter a number...

Bend Angle (degrees) - Heat Treated

Enter a number...

Macroscopic Examination Results (grain size, porosity, etc.)

Write something...

DT Report/Certificate

 Upload File

Deviations from Specified DT Procedure and Explanation

Write something...

Welder Qualification & Documentation

Verification of welder certification and documentation of welding performed.

Welder ID Number

Enter a number...

Welding Process Certified For

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

Specific Materials Certified For (e.g., Steel Grade)

Write something...

Date of Certification Expiration

Enter date...

Upload Welder Certification Document

 Upload File

Welder Signature

Write something...

Any Restrictions/Limitations on Certification

Write something...

Post-Weld Treatment (if applicable)

Checks related to post-weld heat treatment, stress relieving, or other processes.

Type of Post-Weld Treatment Applied

- ☐ Stress Relief
- ☐ Solution Annealing
- ☐ Heat Treatment (Specify)
- ☐ None

Maximum Temperature (°C/°F)

Soaking Time (hours)

Cooling Rate (°C/°F per hour)

Detailed Procedure Description

Heat Treatment Chart/Record

 Upload File

Heat Treatment Completion Date

Enter date...

Furnace ID

Material Traceability & Documentation

Verification of material certifications and records related to weld materials.

Material Certification Available?

☐ Yes

☐ No

Upload Material Certification (e.g., Mill Certificate)

 Upload File

Material Specification Number

Write something...

Batch/Lot Number**Supplier Name****Date of Material Receipt****Notes on Material Traceability (if any)**