

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)

Enter a number...

Soaking Time (hours)

Enter a number...

Cooling Rate (°C/°F per hour)

Enter a number...

Detailed Procedure Description

Write something...

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

Enter a number...

Supplier Name

Write something...

Date of Material Receipt

Enter date...

Notes on Material Traceability (if any)

Write something...