✅ ChecklistGuro

Welding Quality Checklist

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?

    Enter a number...

Welding Voltage (Volts) - Verified?

    Enter a number...

Travel Speed (inches/minute) - Verified?

    Enter a number...

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...