



Structural Welding Quality Program Kit (AWS D1.1 / ISO 3834)

Welding quality manual skeleton, WPS/PQR/WPQ registers, welder continuity, consumable control, preheat/interpass, fit-up and visual inspection, weld map and repair records for structural fab shops.

What's inside

File	What it is / how to use it
01_Structural_Welding_Quality_Workbook.xlsx	Requirements tracker, WPS/PQR register, welder qualification and continuity, consumable storage log, preheat/interpass log, fit-up/visual inspection log, weld map and repair log.
02_Welding_Quality_Manual_Skeleton.docx	Program outline in our own words.
03_WPS_PQR_WPQ_Record_Forms.docx	Our own layout; fill variables from your licensed code.
04_Weld_Map_Template.docx	Per-drawing weld map.

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About the author

Built by Matt Norman, US Navy veteran and former SpaceX Falcon 9 quality inspector and QA supervisor. (Not affiliated with or endorsed by SpaceX.) Norman Quality Tools is Veteran-Owned & Operated. Contains no SpaceX, government, or customer proprietary information; all example data is made up.

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Welding Quality Manual Skeleton

Structural Welding Quality Program Kit (AWS D1.1 / ISO 3834) - Document 02 - Rev A (2026-10)

Company		Applicable code(s) + edition	
Welding coordinator / CWI		Rev	

1. Scope and quality level

[Products, codes and editions, ISO 3834 part chosen, customer and Engineer of Record requirements.]

2. Contract and technical review

[How drawings, specs and weld requirements are reviewed before work.]

3. Personnel

[Welding coordination, welder qualification and continuity (Welder Quals sheet), inspector qualification.]

4. Procedures

[WPS development, approval and display at the workstation (WPS Register).]

5. Materials and consumables

[Receiving, MTR review, storage, low-hydrogen control (Consumables sheet).]

6. Production control

[Fit-up, preheat/interpass, in-process checks, weld maps.]

7. Inspection and NDT

[Visual inspection, NDT methods, personnel, acceptance criteria source.]

8. Nonconformance and repair

[Repair approval, repair WPS, re-inspection.]

9. Records and traceability

[Weld maps, records retained, retention period.]

Role	Name	Signature	Date
Welding coordinator			
Management			

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