

## **Appendix A**

### **RELATED INSTRUCTION:** **WELDER-FITTER**

O\*NET CODE: 51-4121.03 RAPIDS CODE: 0627

This schedule is attached to and a part of these Standards for the above identified occupation.

**1. TERM OF APPRENTICESHIP**

The term of the occupation shall be 4 Years with an OJL attainment of 8000 hours supplemented by the required hours of related instruction.

**2. RATIO OF APPRENTICES TO MENTORS**

One (1) Apprentice may be employed in each department and/or jobsite employing one (1) qualified Mentor.

**3. APPRENTICE WAGE SCHEDULE**

Apprentices shall be paid a progressively increasing schedule of wages based on a percentage of the current Mentor wage rate.

*Note: Sponsoring Employers will show their Mentor wage rate on the Employer Acceptance Agreement*

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**4. SCHEDULE OF WORK EXPERIENCE** (See attached Work Process Schedule)

The Sponsor may modify the work processes to meet local needs prior to submitting these Standards to the appropriate Registration Agency for approval.

**5. SCHEDULE OF RELATED INSTRUCTION** (See attached Related Instruction Outline)

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**Description:** Lays out, fits, and welds fabricated, cast, and forged components to assemble structural forms, such as machinery frames, tanks, pressure vessels, furnace shells, and building and bridge parts, according to blueprints and knowledge of welding and metallurgy: Selects equipment and plans layout, assembly, and welding, applying knowledge of geometry, physical properties of metal machining weld shrinkage, and welding techniques. Lay out, positions, aligns, and fits components together. Bolt, clamp, and tack-weld part to secure in position for welding. Sets up equipment and welds parts, using arc, gas-shielded arc, submerged arc, or gas welding equipment. May assemble parts by bolting and riveting. May repair products by dismantling, straightening, reshaping, and reassembling parts, using cutting torch, straightening press, and hand tools. May specialize in using one welding process. May specialize in fitting and welding components of metal tools, dies, and fixtures.

### ON-THE-JOB TRAINING:

	<u>APPROXIMATE HOURS</u>
A. Shop Information	100
1. Safety procedures	
2. Stocking and storage procedures	
3. Tool and equipment maintenance	
4. Job ticket information	
B. Rigging	500
1. Safety procedures	
2. Use of ropes, cables, chains	
3. Cranes, derricks, jacks	
4. Cable splicing	
5. Field rigging	
6. Moving, loading, lashing	
C. Maintenance of Equipment	500
1. Care and use of tools	
2. Dismantling	
3. Field rigging	
4. Moving field equipment	
D. Layout and Fabrication	1900
1. Cutting	
2. Bending	
3. Assembling	
4. Tacking and welding	
E. Welding	5000
1. Acetylene	
2. Electric arc welding	
3. Cutting and burning	
4. Mug & Tag	
<b>TOTAL HOURS</b>	<b>8000</b>

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Related instruction - This instruction may include, but not be limited to:

*Note:* Due to regional and local code differences and climate conditions, duration of instructional competencies/modules are suggested estimates.

- A. Blueprint Reading
- B. Mathematics
- C. Welding
- D. Sheetmetal
- E. Safety and First Aid

**TOTAL HOURS 1152**