## Manufacturing: Production - Welding

### Career Pathway Plan of Study for Learners, Parents, Counselors, Teachers/Faculty

This Career Pathway Plan of Study (based on the Construction Pathway of the Architecture and Construction Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner’s educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

### EDUCATION LEVELS

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<tr>
<th>GRADE</th>
<th>English/Language Arts</th>
<th>Math</th>
<th>Science</th>
<th>Social Studies/Sciences</th>
<th>Other Required Courses/Other Electives</th>
<th>*Career and Technical Courses Major Courses for Construction Pathway: Welding</th>
<th>and/or Degree</th>
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### SAMPLE Occupations Relating to This Pathway

- Carpenter
- Code Official
- Contractor
- Design Builder
- Electrician
- Electronic Systems Technician
- Equipment and Material
- General Contractor/Builder
- Heating, Ventilation, Air Conditioning and Refrigeration Mechanic
- Mason
- Painter
- Plumber
- Project Estimator
- Project Manager
- Project Inspector
- Project Manager
- Roofer
- Safety Director
- Sheet Metal Worker
- Specialty Contractor
- Superintendent
- Tile and Marble Setter

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**WITC-WELDING**

### Year 13

- **Applied Communications 1**
  - Applied Human Relations

### Year 14

- **Print Reading - Welding Trades**: Welding Fabrication/Production (WBL); Gas Metal Arc Welding 1; Gas Metal Arc Welding 2; Gas Metal Arc Welding 3; Shielded Metal Arc Welding 1; Shielded Metal Arc Welding 2; Shielded Metal Arc Welding 3; OAC/PAC/AAC Cutting; Flux Cored Arc Welding 1; Flux Cored Arc Welding 2; Gas Tungsten Arc Welding 1; Gas Tungsten Arc Welding 2

**Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.**

### Year 15

- WITC has articulation agreements with the following institutions for students who graduate from WITC with a Technical Diploma in Welding. Students should check with the institution they wish to transfer to for specific courses and credits that transfer.

**PRIVATE**: Upper Iowa University, Fayette, IA or Online Programs

**Year 16**

Credits may transfer to other institutions. Check with admissions advisors at institutions for specific course and/or credit transfers.

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