

Idaho Trades & Industry

Secondary Pathway Sequence



| MANUFACTURING PATHWAYS | | | | |
|-------------------------------|---|---|---|--|
| PATHWAY SEQUENCE | AUTOMATED MANUFACTURING | INDUSTRIAL MAINTENANCE MECHANICS | PRECISION MACHINING | WELDING |
| Intermediate (1 Year) | Automated Manufacturing Level I 130025 | Industrial Maintenance/Mechanics Level I 130022 | Precision Machining Level I 132030 | Welding Level I 132070 |
| Intermediate (1 Year) | Automated Manufacturing Level II 130026 | Industrial Maintenance/Mechanics Level II 130023 | Precision Machining Level II 132031 | Welding Level II 132071 |
| Capstone (1 Year) | Automated Manufacturing Level III (Required) 130027 | Industrial Maintenance/Mechanics Level III (Required) 130024 | Precision Machining Level III (Required) 132032 | Welding Level III (Required) 132072 |
| | Work-Based Learning: Automated Manufacturing (Optional) 130980 | Work-Based Learning: Industrial Mechanics (Optional) 130981 | Work-Based Learning: Precision Machining (Optional) 130982 | Work-Based Learning: Certified Welding (Optional) 132480 |
| Technical Competency Credits* | Blueprint Reading: 2 credits (CEI, CSI, CWI, LCSC, NIC) Basic Electricity & DC Circuit Theory: 4 credits (CWI, ISU, LCSC) Basic Electricity & DC Circuit Lab: 2 credits (CEI, CSI, CWI, ISU, LCSC, NIC) | TBD | Machine Tool Theory I: 2 credits (CEI, CSI, CWI, ISU, NIC) Machine Tool Theory II: 2 credits (CEI, CSI, CWI, ISU, NIC) Blueprint Reading: 2 credits (CEI, CSI, CWI, ISU, LCSC, NIC) | Safety and Leadership: 2 credits Welding Theory: 2 credits Blueprint Reading for Welders: 2 credits SMAW Practical: 4 credits (CEI, CSI, CWI, ISU, LCSC, NIC) |

*Credits can be transcribed at the specified postsecondary institutions.

PATHWAY RESOURCES — MANUFACTURING

Program Requirements

Approved Assessments

[CTECS- Automated Manufacturing](#)

[CTECS- Industrial Maintenance Mechanics](#)

[CTECS- Precision Machining](#)

[CTECS- Welding](#)

Program Standards

[Automated Manufacturing](#)

[Industrial Maintenance Mechanics](#)

[Precision Machining](#)

[Welding](#)

Teaching Endorsements

130027 Automated Manufacturing Level III

5022 Automated Manufacturing (6-12)

130024 Industrial Mechanics Level III

6109 Industrial Mechanics (6-12)

132032 Precision Machining Level III

6232 Precision Machining (6-12)

132072 Welding Level III

6236 Certified Welding (6-12)

Advanced Opportunities

[Idaho SDE Advanced Opportunities, Approved Exams, and Cost](#)

AWS GMAW (Various Exams)

AWS FCAW (Various Exams)

AWS GTAW (Various Exams)

AWS SMAW (Various Exams)

National Institute for Metalworking Skills (NIMS) Level 1 Credentials

SkillStack® Badges



TCC - Basic Electricity & DC Circuit Theory: for Automated Manufacturing 4 credits



TCC - Machine Tool Theory I Course: 2 Credits



TCC - Machine Tool Theory II Course: 2 Credits



TCC - Safety and Leadership: 2 Credits



TCC - Welding Theory: 2 Credits



TCC - Blueprint Reading for Welders: 2 Credits



TCC - SMAW Practical: 4 Credits



TCC - Blueprint Reading for Automated Manufacturing: 2 Credits



TCC - Basic Electricity & DC Circuit Lab for Automated Manufacturing: 2 credits

Career & Technical Student Organization

SkillsUSA

Website: skillsusaidaho.com

Mission: SkillsUSA empowers its members to become world-class workers, leaders and responsible American citizens. SkillsUSA improves the quality of our nation's future skilled workforce through the development of Framework skills that include personal, workplace and technical skills grounded in academics.

CTSO State Advisor

[Chet Andes](#) [208.429.5523]

CTSO Manager

[Dan Kelly](#) [208.429.5553]

