



Introduction to Shielded Metal Arc Welding (SMAW)

Certification website: [Lincoln Electric Education Partner Schools \(LEEPS\) Program Requirements Checklist \(nc3.net\)](https://www.lincolnelectric.com/education/partner-schools/leeps-program-requirements-checklist-nc3-net)

Credential Summary

The Lincoln Electric Education Partner Schools Program (LEEPS) partners educational institutions' welding technology programs with the National Coalition of Certification Centers (NC3) to offer best-in-class foundational-level welding certifications to prepare students for a career in the modern welding industry by introducing welding skills and concepts combined with core foundational-level welding certifications.

Overview

- **Related Instructional Hours:** No requirement
- **Exam details:** N/A
- **Third party testing provider:** N/A
- **Exam cost:** N/A
- **Renewal details:** Welding certifications require renewal every 3 years

Job Opportunities

- **Relevant SOC codes**
 - Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders 51-4122
 - Welders, Cutters, Solderers, and Brazers 51-4121
- **Demand information**
 - Average flame ranking = 3.36/5
- **Average Wages**
 - Ranges from \$43,780 (21.05 per hour) to \$46,660 (22.43 per hour)
(Average wages pulled as of October 2023)

Knowledge, Skills, and Competencies

- Weld plates in various positions including:
 - Horizontal
 - Vertical
 - Overhead
- Various techniques for cutting and preparing metal for welding procedures

Post Secondary Relevance

- **Credit for prior learning**
 - Ivy Tech gives credit
- **Next level programs of study**



- Welding Technology
- Shielded Metal Arc Welding
- Gas Welding Processes