



# WORKFORCE & COMMUNITY DEVELOPMENT NASHVILLE STATE COMMUNITY COLLEGE

## Shielded Metal Arc Welding

### Recommended 8 hours per lesson

1. Lesson 1
  - a. SMAW Safety
  - b. SMAW Machine Principles and Terms
  - c. Welding Electrode Classifications
  - d. Lab SMAW welding practice flat position
2. Lesson 2
  - a. SMAW welding equipment and accessories
  - b. Type of materials joined using SMAW
  - c. Determining different materials to be joined
  - d. Quiz 1
  - e. Lab SMAW welding flat and horizontal and root passes with 6010 electrode
3. Lesson 3
  - a. SMAW welding weave and motion techniques
  - b. Different types of weld joints
  - c. Quiz 2
  - d. Lab SMAW welding vertical





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## 4. Lesson 4

- a. SMAW welding recognizing discontinuities and defects
- b. SMAW – preventing discontinuities and defects
- c. Quiz 3
- d. Lab Practice welding vertical and overhead

## 5. Lesson 5

- a. Plasma/ Oxygen / Acetylene Safety Principles
- b. Plasma Cutting/Oxygen/Acetylene terminology/ parts of the Oxy/acetylene torch
- c. Final Comprehensive Quiz
- d. Labs Oxygen Acetylene torch practice

**Don't have welding trainers at your company? Don't worry, we do and we'll bring them to your location!**

Please call Workforce Development at 353-3456 for further information. Thank you.