

# Chapter 5

## SMAW: Equipment and Supplies

### Learning Objectives

After studying this chapter, you will be able to:

- Describe the differences between direct current (dc) and alternating current (ac).
- Interpret American Welding Society (AWS) abbreviations regarding welding current polarity.
- Identify the equipment and accessories used in shielded metal arc welding (SMAW).
- Identify factors to consider when selecting an arc welding machine.

### Technical Terms

alternating current (ac)  
bridge rectifier  
chipping hammer  
constant current (CC)  
constant voltage (CV)  
cover plate  
cycle  
diode  
direct current (dc)

direct current electrode  
negative (DCEN)  
direct current electrode  
positive (DCEP)  
direct current reverse  
polarity (DCRP)  
direct current straight  
polarity (DCSP)  
droop curve machines

droopers  
duty cycle  
electrode holder  
electrode lead  
filter lens  
flash goggles  
frequency  
gauntlet gloves  
helmet  
hertz  
input power  
inverter  
lug  
open circuit voltage (OCV)  
polarity  
primary current

rated output current  
secondary current  
shielding gas  
shielded metal arc  
welding (SMAW)  
silicon-controlled  
rectifier  
slag  
step-down transformer  
terminals  
voltage drop  
welding outfit  
welding station  
wire brush  
work booth  
workpiece lead

### Shielded Metal Arc Welding Principles

*Shielded metal arc welding (SMAW)* is a welding process in which the base metals are heated to fusion or melting temperature by an electric arc. The arc is created between a covered metal electrode and the base metal. A *shielding gas* protects the base metals, arc, electrode, and weld from the atmosphere during welding. The shielding gas is created as the flux covering on the electrode melts. When the flux solidifies, it forms a protective slag over the weld bead. The melting electrode wire furnishes filler metal to the weld. See Figure 5-1.

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**Albert A Gayle**



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## **Table of Contents Welding Technology Fundamentals Chapter Review Answers**

1. Understanding the eBook Welding Technology Fundamentals Chapter Review Answers
  - The Rise of Digital Reading Welding Technology Fundamentals Chapter Review Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Welding Technology Fundamentals Chapter Review Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Welding Technology Fundamentals Chapter Review Answers
  - User-Friendly Interface

4. Exploring eBook Recommendations from Welding Technology Fundamentals Chapter Review Answers
  - Personalized Recommendations
  - Welding Technology Fundamentals Chapter Review Answers User Reviews and Ratings
  - Welding Technology Fundamentals Chapter Review Answers and Bestseller Lists
5. Accessing Welding Technology Fundamentals Chapter Review Answers Free and Paid eBooks
  - Welding Technology Fundamentals Chapter Review Answers Public Domain eBooks
  - Welding Technology Fundamentals Chapter Review Answers eBook Subscription Services
  - Welding Technology Fundamentals Chapter Review Answers Budget-Friendly Options
6. Navigating Welding Technology Fundamentals Chapter Review Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Welding Technology Fundamentals Chapter Review Answers Compatibility with Devices
  - Welding Technology Fundamentals Chapter Review Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Welding Technology Fundamentals Chapter Review Answers
  - Highlighting and Note-Taking Welding Technology Fundamentals Chapter Review Answers
  - Interactive Elements Welding Technology Fundamentals Chapter Review Answers
8. Staying Engaged with Welding Technology Fundamentals Chapter Review Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Welding Technology Fundamentals Chapter Review Answers
9. Balancing eBooks and Physical Books Welding Technology Fundamentals Chapter Review Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Welding Technology Fundamentals Chapter Review Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Welding Technology Fundamentals Chapter Review Answers
  - Setting Reading Goals Welding Technology Fundamentals Chapter Review Answers
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Welding Technology Fundamentals Chapter Review Answers
  - Fact-Checking eBook Content of Welding Technology Fundamentals Chapter Review Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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