

## **Course Objectives/Course Outline**

### **Spokane Community College**

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**Course Title: Automotive Collision and Refinishing Technician**

**Prefix and Course Number: MIG Welding ABF 117**

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#### **Course Learning Outcomes:**

**By the end of this course, a student should be able to:**

- Identify MIG welding equipment and their functions
- Describe the welding process
- Apply safety standards when working in the welding lab
- Perform Welding Tests
- Weld using the MIG process.

#### **Course Outline:**

- I. Weld Testing
  - A. Visual Inspection
  - B. Destructive Testing
- I. Welding Safety
  - A. Electric Shock
  - B. Protection from Sparks and Welding Arc
  - C. Protection from Fumes
- I. Principles of Basic Welding
  - A. Introduction to Electricity
  - B. MIG Welding Process
  - C. Equipment and Operations
  - D. Types of MIG Welds
  - E. Welding Applications
  - F. Troubleshooting