



Course Description

PMT0070 | Welder Assistant 1 | 5.00 credits

This program prepares students for employment or advanced training in the welding industry. Students will acquire knowledge of welding technologies, study workplace safety and organization, basic manufacturing processes, metals identification, basic interpretation of welding symbols, and oxyfuel gas cutting practices. Upon completing the welding technology program, students could obtain a certification in a 10-hour OSHA training program and secure the NCCER certification in welding technology and NCCER Core certification.

Course Competencies

Competency 1: The student will gain foundational knowledge of various welding technologies and practices relevant to the welding industry by:

1. Identifying different welding technologies and their applications to determine the appropriate method for specific tasks
2. Applying oxyfuel gas cutting practices safely and effectively to perform basic cutting operations
3. Demonstrating the ability to interpret basic welding symbols to understand welding specifications and instructions

Competency 2: The student will develop essential skills related to workplace safety and organizational practices in a welding environment by:

1. Analyzing workplace safety protocols to ensure a safe working environment and minimize hazards
2. Organizing tools and materials efficiently to enhance productivity and maintain a clean workspace
3. Realizing a 10-hour OSHA training program to obtain certification and demonstrate commitment to workplace safety

Competency 3: The student will learn to identify various metals and understand basic manufacturing processes essential in the welding field by:

1. Identifying different types of metals and their properties to select appropriate materials for welding projects
2. Understanding basic manufacturing processes to comprehend how welding fits into the production cycle
3. Achieving NCCER certification in welding technology and NCCER Core certification to validate skills and knowledge in the welding industry

Learning Outcomes:

1. Communicate effectively using listening, speaking, reading, and writing skills
2. Solve problems using critical and creative thinking and scientific reasoning
3. Formulate strategies to locate, evaluate, and apply information