

Course Description**PMT0073 | Welder SMAW 2 | 5.00 credits**

In the Welder, SMAW 2 course, students will gain a comprehensive understanding of employability skills and career prospects within the welding industry, enabling them to make informed decisions about their professional paths. Building upon foundational knowledge, students will advance to intermediate shielded metal arc welding (SMAW) skills, honing their abilities to produce high-quality welds with increased complexity. They will apply these skills practically by creating a product using intermediate SMAW principles and practices, demonstrating proficiency in fabrication techniques. By the course's end, students will be well-equipped with both technical expertise and industry insights, ready to pursue rewarding careers in welding and related fields.

Course Competencies

Competency 1: The student will enhance their intermediate SMAW skills, focusing on producing high-quality welds with increased complexity by:

1. Practicing intermediate SMAW techniques to produce high-quality, structurally sound welds in various positions and materials
2. Applying and analyzing welding specifications and advanced techniques to achieve desired weld characteristics and configurations
3. Assessing completed welds using visual inspection methods to identify defects and areas for improvement in technique

Competency 2: The student will gain insights into employability skills and career prospects within the welding industry to make informed professional decisions by:

1. Exploring various career paths in the welding field to identify potential opportunities and required qualifications
2. Developing essential employability skills, such as communication, teamwork, and problem-solving, to enhance job readiness
3. Creating a professional resume and practicing interview techniques to prepare for successful job applications in the welding industry

Competency 3: The students will apply their intermediate SMAW skills to fabricate a product, demonstrating proficiency in welding and fabrication techniques by:

1. Designing and planning a fabrication project incorporating intermediate SMAW principles and practices
2. Executing the fabrication project using advanced welding techniques to produce a finished product that meets industry standards
3. Demonstrating the completed project, highlighting the techniques used, and reflecting on the learning process to demonstrate technical expertise

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