

**Course Title: SMAW WELDING
PROCESSES**

Course Code: MEC 118

Course Background / Summary:

This course is designed to teach the participants the basic safety principles, practices, and applications of SMAW. This course covers welding trade theory, including safety, tool usage, equipment setup, and standard terms and definitions. Basic welding and cutting techniques in the flat and horizontal position and welding safety. The course also covers basic metallurgy and identifying weld problems and defects. Participants will be given classroom theory and hands-on instructed practical sessions in both processes.

Course Objectives:

- To successfully weld two or more pieces of metal, using a variety of welding positions and different joint configurations using the SMAW welding processes.
- Develop skills in producing good welding quality using specific SMAW welding processes.
- Inspect the welded part according to quality requirements.

Target Audience:

- Welding Apprentices, Welding Supervisors, Welding Instructors, Workshop Personnel.
- Teaching staff/instructors.

Course Duration: 3 -Days

Course Contents

1.0 Introduction to Shielded Metal Arc Welding (SMAW)

2.0 SMAW Equipment Requirements

3.0 SMAW Consumable Electrode Type

4.0 Practical Session: SMAW