

IMAC – Welding Level II

Intermediate Welding

(College ID: WLD 225 - Shielded Metal Arc Welding Open Groove Lab)

Description:

This 90-hour training course offers students the opportunity to advance their welding skills in the practical aspects of vee-butt plate welding using Shielded Metal Arc Welding (SMAW) techniques. It provides “hands-on” skill development and assessment with 100% of the student’s time spent in the lab.

This training course is designed as a flexible delivery option that can be offered during the day, evening, and/or weekend as part of the college’s IMAC program. IMAC is an acronym for Industry-Based Modularized Accelerated Credentials.

Credentials Awarded:

Three (3) college credits and an Intermediate Welding – Level II certificate are awarded upon successful completion.

Prerequisite:

Successful completion of the Welding Level I (WLD 152 Basic Welding B) training course or approval from the instructor is required. A signed Welding Student Learning Contract is required before admittance to the training course.

Competencies:

Upon completion of this training course, the student can:

1. Use lab equipment and tools safely.
2. Apply principles of SMAW to welding.
3. Perform skills in vee-butt plate welding.

Outline/Learning Modules:

I. Lab Equipment and Tool

- A. Identification
- B. Instruction in proper use

II. SMAW Principles

- A. Review basics of shield metal arc welding
- B. Practice welds
- C. Advanced vee-butt plate welding
- D. Practice welds

Experiments/Activities:

1. Use lab equipment and tools safely.
2. Apply principles of SMAW to welding.
3. Perform skills in vee-butt plate welding.

Learning Resources:

The learning materials used for this course include: *SMAW Stick Welding* available through The Lincoln Electric Company, 22801 St. Clair Ave. Cleveland, OH 44117, (216) 481-8100.

Website: <http://www.lincolnelectric.com/knowledge/training/weldcurriculum.asp>

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