

SHIELDED METAL ARC WELDING (SMAW) CERTIFICATE OF ACHIEVEMENT

This certificate is designed to train students in the use of Shielded Metal Arc Welding (SMAW) often known as Arc or Stick Welding. Electrode identification, welding symbols, and joint design are stressed. Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Students must complete **all** the **required courses** plus pass the SMAW Welding Certification either through the City of San Bernardino or Los Angeles. The practical welding certification test for both cities is administered by SBVC Welding Department.

Code	Title	Units
Required Courses:		
WELD 012	Oxy-Fuel Welding	2
WELD 045	Shielded Metal Arc Welding - Beginning	3
WELD 046	Shielded Metal Arc Welding - Intermediate	4
WELD 066	Preparation for Los Angeles City Welding Welding Certification - Structural (AWS D1.1)	3
Total Units		12

Students completing all course work but not finishing the SMAW Certification may proceed to the next certificate. In order to be awarded the certificate, both course work and certification must be completed.

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Program Learning Outcomes

At the completion of this program, students will be able to:

- Show an understanding of the safety precautions for working in a welding lab and demonstrate an awareness of the importance of safety in welding.
- Read and understand Welding Procedure Specifications to produce quality welds.
- Pass a Welder Performance Qualification Test with the SMAW process that meets the standard of acceptability for the City of Los Angeles Department of Building and Safety.