Program Requirements

Los Medanos College

Certificate of Achievement – Welding

September 2013

The program in Welding Technology offers instruction in the principles

and practices of welding processes. Successful completion of the program

provides sufficient training for entry level into the field of production type

welding. Students have access to the latest instructional and practical experiences

in a spacious, modern shop facility.

For the Certificate of Achievement in Welding Technology, complete the

units of coursework listed below. Consult a Los Medanos College counselor

to develop your education plan

**REQUIRED COURSES: UNITS**

WELD-010 Basic Arc Welding Theory, 3 units

WELD-011 – Basic Shielded Metal Arc Welding Practice, 2 units

WELD-015 Basic Oxyacetylene Welding, 2 units

WELD-016 Advanced Oxyacetylene Welding, 1 unit

WELD-020 – Intermediate Shielded Metal Arc Welding Practice, 2 units

WELD-021 Advanced Shielded Metal Arc Welding Practice, 2 units

WELD-031 TIG Welding Practice, 2 units

WELD-033 MIG Welding Practice, 2 units

WELD-035 Blueprint Reading for Welders, 3 units

WELD-040 TIG, MIG and FCA Welding Theory, 3 units

WELD-041 Pipe Welding Practice, 2 units

WELD-043 Flux-Core Arc Welding Practice, 2 units

ENGL-090 or 100 Integrated Reading, Writing or Critical Thinking or College Composition

MATH 12 or higher\* Prealgebra

COMSC-40 or 049 Introduction to Computers or Computer Literacy

**TOTAL UNITS REQUIRED IN MAJOR COURSES: 33.5-39**

\*Possible higher Math courses (3-7 units) 25, 26, 27, 29, 30, 32, 34, 35, 37, 40, 50, 60, 75, 80, 160

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| Certificate of Achievement | Dept. Name / No. | Course Name | Units | Sequence |
| Required Core36.5 to 39 Units | WELD 15WELD 10WELD 11ENGL 90MATH 12WELD 20WELD 31WELD 40WELD 16WELD 21WELD 33WELD 35COMSC 40 or 49WELD 41WELD 43 | Basic Oxyacetylene WeldingBasic Arc Welding TheoryBasic Arc Welding PracticeReading, Writing, Critical ThinkingPreAlgebra MathIntermediate Arc Welding PracticeTIG Welding PracticeTIG, MIG, FCA Welding TheoryAdvanced Oxyacetylene WeldingAdvanced Arc Welding PracticeMIG Welding PracticeBlueprint Reading for WeldersComputer LiteracyPipe Welding PracticeFlux-Core Arc Welding Practice | 2325422312234 or 1.522 | Year 1:Summer 1Fall 1Fall 1Fall 1Fall 1Spring 1Spring 1Spring 1Year 2:Summer 2Fall 2Fall 2Fall 2Fall 2Spring 2Spring 2 |