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 Core  36.5 to 39 Units | WELD 15  WELD 10  WELD 11  ENGL 90  MATH 12  WELD 20  WELD 31  WELD 40  WELD 16  WELD 21  WELD 33  WELD 35  COMSC 40 or 49  WELD 41  WELD 43 | Basic Oxyacetylene Welding  Basic Arc Welding Theory  Basic Arc Welding Practice  Reading, Writing, Critical Thinking  PreAlgebra Math  Intermediate Arc Welding Practice  TIG Welding Practice  TIG, MIG, FCA Welding Theory  Advanced Oxyacetylene Welding  Advanced Arc Welding Practice  MIG Welding Practice  Blueprint Reading for Welders  Computer Literacy  Pipe Welding Practice  Flux-Core Arc Welding Practice | 2  3  2  5  4  2  2  3  1  2  2  3  4 or 1.5  2  2 | Year 1:  Summer 1  Fall 1  Fall 1  Fall 1  Fall 1  Spring 1  Spring 1  Spring 1  Year 2:  Summer 2  Fall 2  Fall 2  Fall 2  Fall 2  Spring 2  Spring 2 |