

# Welding Department

## DEGREES

Welding Technician (AS)

## CERTIFICATES OF ACHIEVEMENT

Welding Technician

## COURSES

WELD (Welding)

## CONTACT INFORMATION:

School of Applied Technology and Business

**Building:** 500 Room 509

**Phone Number:** (707) 864-7229

**Fax Number:** (707) 864-7190

**Dean:** Lisa Neeley

**Administrative Assistant:** Jill Crompton

**Faculty Contact:** Jeffrey "Jeff" Kissinger



**P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE**

### ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

# Welding

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## **Welding Technician**

*Certificate of Achievement and Associate in Science*

### **Program Description**

Designed to prepare the graduate for employment as a welder or a welder helper in the metal trades. The major types of welding covered are shielded arc, acetylene gas welding, metal inert gas, tungsten inert gas, automatic and semi-automatic welding machines.

The Certificate of Achievement can be obtained upon completion of the 15-unit Certificate Courses. The Associate in Science can be obtained by completing the 15-unit Certificate Courses, the 12-unit Associate Degree Courses, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis. Completion of this program prepares the student to take the welders' certification AWS D1.1 exam.

### **Program Outcomes**

Students who complete the Welding Technician Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate competency in major welding processes used in industry.
2. Apply welding processes and the use of hand tools and shop equipment to fabricate projects.
3. Recognize and interpret technical drawings in the planning and fabrication of projects.
4. Demonstrate appropriate workplace safety policies and procedures during welding and fabrication operations.
5. Apply mathematical concepts to solve problems related to an industrial/technical environment.

<b>CERTIFICATE COURSES</b>	<b>Units</b>
DRFT 079 Blueprint Reading	3
WELD 130 Beginning Shielded Metal Arc Welding (Stick 7018/6010 Basic)	3
WELD 131 Intermediate Shielded Metal Arc Welding (Stick Welding)	3
WELD 132 Advanced SMAW (Stick Welding)	3
IT 151 Vocational Mathematics	3
<b>Required Certificate Major Total Units</b>	<b>15</b>

<b>ASSOCIATE DEGREE COURSES</b>	<b>Units</b>
All Certificate Courses	15
IT 101 Introduction to Mechatronics	3
OCED 070 Occupational Soft Skills	1.5
OCED 071 Occupational Portfolio Development	1.5
WELD 136 Beginning Structural Steel and Flux Core Arc Weld (FCAW)	3
WELD 145 Intermediate Pipe Welding 7018 STK (SMAW)	3
<b>Required Associate Major Total Units</b>	<b>27</b>

This is a Gainful Employment Program. For additional information, please visit [http://www.solano.edu/gainful\\_employment/](http://www.solano.edu/gainful_employment/) and select "Welding Technician."