

The Program



The welding program prepares you for entry-level employment in the welding and metal fabrication industries where you would be required to weld metals, fabricate and repair

metal structures. At Cabrillo, you receive a high standard of instruction from expert faculty with many years of real-world experience. They share their knowledge and experience with you so that you are better prepared to succeed in your career as a welder.

You learn to operate a wide variety of machinery and tools and become competent in using them safely. Depending upon what specialty area you focus on, you may learn to do gas and TIG welding, SMAW arc welding, MIG and FCAW welding on plate and pipe connections — even create architectural ironwork—not to mention understand blueprints, fabricate metal components and interpret welding symbols.

Note: Because welding involves the operation of potentially hazardous equipment, students must be at least 18 years of age to enroll in any welding course.

Cabrillo College

Aptos • Scotts Valley • Watsonville

6500 Soquel Drive Aptos, CA 95003 831-479-6201



How To Enroll

STEP 1 You may apply online at www.cabrillo.edu. If you have any questions, contact the Cabrillo College Admissions & Records Office in Building 100 of the Aptos campus located on 6500 Soquel Drive, phone (831) 749-6201; or in Watsonville on 318 Union Street, phone (831) 786-4701

STEP 2 You will receive registration information in the mail including your time to begin registering.

Who May Enroll

Cabrillo College is open to anyone 18 years of age or older, or anyone with a high school diploma or proficiency certificate. High school students also may attend classes at Cabrillo on a limited basis with the permission of their high school principals.

Nondiscrimination Policy

Cabrillo Community College does not discriminate on the basis of ethnic group identification, national origin, religion, age, sex, race, color, physical or mental disability, or sexual orientation in any of its policies, procedures, or practices. This nondiscrimination policy covers admission and access to, and treatment and employment in, the college's programs and activities, including vocational education programs. Limited English language skills will not be a barrier to admission to and participation in vocational education programs.

Plan De Acción No Discriminatoria

Cabrillo Community College no discrimina a base de identificación con grupos étnicos, nacionalidad de origen, religión, edad, sexo, raza, color, incapacidad mental o física ni orientación sexual en ninguna de sus reglamentaciones, procedimientos o prácticas. Este plan de acción no discriminatoria incluye la admisión y el acceso a los programas y actividades, y el tratamiento y el empleo en los mismos, incluyendo la educación vocacional. Tener limitadas destrezas en el idioma inglés no constituirá una barrera para ser admitido o participar en los programas de educación vocacional. 5/11

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Welding

Cover photo: Victor Schiffrin

Cabrillo College

cabrillo.edu

Welding

The welding classes are great! Fantastic teachers and fun to boot! — Dave Osland



Where You Can Work

Welders work in a wide variety of industries—agriculture, construction, manufacturing (e.g. automobiles, computers,

medical devices), marine technology and transportation. Some welders choose to freelance and be their own boss, still others choose to work for small and big companies. You can even work anywhere in the U.S. Whichever road you choose, the skills, knowledge and abilities you acquire and develop in this program will follow you wherever you go—no one can take that away from you!



Sheet Metal Fabrication

Learn to form and join sheet metal and learn to solder, spot weld and rivet structures for which you learn

to develop patterns. This is a specialty that provides career opportunities in the HVAC (heating, venting, air conditioning) and light fabrication industries.

Welding Fabrication

Skilled welders who are able to interpret blueprints are the backbone of manufacturing and construction industries. The skills required for cutting, fitting and welding structures, big and small, are highly valued and well compensated.



Structural Welding

Welding is used to connect beams and columns to construct buildings, bridges and power plants. The quality of this welding is very high and welders must be certified to perform this work.

Pipe Welding

Pipelines are an integral part of our infrastructure and carry oil, gas and water. Welding pipe requires the highest degree of skill and provides the highest range of compensation.



Ornamental/Architectural Ironwork

Architectural ironwork is an integral part of most residential and commercial buildings. Metal fabricators that specialize in making

rails and gates can embellish their work with ornamental metal flourishes.



Skills and Abilities You Need

As a welder, you need to have good hand-eye coordination, excellent concentration, an attention to detail and be very safety-

conscious. You may also find yourself working in all kinds of positions and places—from working in closed, tight spaces upside down and on your back, to under water. You need to be comfortable calculating fractions, decimals, percents, proportions, and doing graphing. An understanding of geometry and ability to visualize objects in three dimensions is also necessary.

Certificates and Certifications

Being certified as a welder means you can successfully perform welding tests on metal connections. Certification is performed to industry standards and follows strict quality rules. As a certified welder you have greater employment opportunities open to you. Cabrillo offers American Welding Society certification testing to qualified applicants.

Welding Industry

There is a crucial need for talented people and manufacturers need good welders who will help improve their products and their productivity. Welded structures tend to be stronger, lighter-weight and cheaper to produce. The American Welding Society predicts that more than 200,000 welders will be needed by 2010. The U.S. California State Employment Development Department shows that welders can earn more than \$40,000 per year.

For more information

cabrillo.edu/academics/welding