Welding

The welding technology program at Allan Hancock College is a great way to start your career in the challenging, dynamic and adaptive field of welding and metalworking. In the industry, welding professionals continuously apply new knowledge and scientific principles to a form of fabrication that is sometimes described more as an art than as a craft. There are a vast number of opportunities available to job seekers in mainstream welding and various auxiliary fields.

Allan Hancock College is committed to providing low-cost, high-tech training in basic and advanced welding, metal fabrication and pipe welding. The curriculum is designed to prepare individuals to learn the basics of layout, fitting, cutting operation, oxyacetylene, shielded metal arc, and gas metal arc (G.M.A.W. and T.I.G.) welding processes.

For more Information:

Welding Technology is one of the career technical education programs at Allan Hancock College within the department of Industrial Technology. It resides in the Manufacturing and Product Development industry sector.

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Allan Hancock College is a California public community college in northern Santa Barbara County serving more than 11,000 credit students each semester. The college offers degrees and certificates in more than 100 fields of study from accounting to welding. The college has a campus in Santa Maria and centers in Lompoc, Solvang, and at Vandenberg AFB.

Associate in Science Degree option
• Welding Technology

Certificate of Achievement options
• Welding Technology
• Metal Fabrication
• Pipe Welding Technology
Welding

The welding technology program at Allan Hancock College progresses from basic to advanced welding courses. The first course in the program covers safety protocols and the basic skills involved in welding and metalworking. In the advanced classes students apply the basic skills to more advanced welding techniques such as hand cutting and semiautomatic cutting. As you progress through the program you will also have the opportunity to learn metalworking as it is used in the arts i.e. sculpture, ornamental iron, blacksmithing and garden art. Our program provides training in essential manipulative skills and technical knowledge required to perform in the areas of oxyacetylene, shielded metal arc, gas metal arc (G.M.A.W. and T.I.G.) welding processes.

The associate degree and certificate curriculum in welding technology is designed to provide comprehensive occupational training in all common types of welding methods as related to today’s welding fabrication industries. Upon degree/certificate completion you will have mastered the techniques used in modern welding and metalwork. Certification tests may be taken as part of your certificate/degree completion.

Employment Opportunities:
Upon graduation you will be prepared for entry-level employment in a variety of fields and job positions such as:

- Welder
- Fabricator
- Maintenance welder
- Pipe welder/fitter
- Ornamental Iron
- Blacksmithing
- Contract welder
- Certified Welder
- Welding Engineer
- Equipment Repair
- Equipment Sales
- Quality Control
- Education
- Manufacturing


Equipment and Facilities:

Outdoor blacksmithing lab: Students will learn how to forge metal using gas forges, anvils and power hammers.

Inside welding lab: Students will learn traditional welding techniques with up-to-date equipment. Welding techniques include:

- GMAW (MIG Welding)
- GTAW (TIG Welding)
- SMAW (Stick welding)
- Flux Core Arc Welding
- Gas Welding and Brazing
- Flame Cutting
- Plasma Arc Cutting

Welding Technology (A.S. & Certificate of Achievement)
A major of 31 units is required for the associate in science degree and certificate.

Required core courses (16 units):

- MT 109 Survey of Machining 4
- WLD T 106 Beginning Welding 3
- WLD T 107 Advanced Welding 3
- WLD T 306 Layout and Fabrication Interpretation 3
- WLD T 312 Pipe Fitting and Welding 3
- WLD T 315 Metal Fabrication 4
- WLD T 381 Industrial Math 3

Plus a minimum of 15 units selected from the following:

- MT 110 Machine Tool Practices 4
- WLD T 307 G.M.A.W. Welding 3
- WLD T 308 T.I.G. Welding 3
- WLD T 330 Welding Certification 3
- WLD T 331 Welding Certification Lab 2

Welding Technology: Metal Fabrication (Certificate of Achievement)
A major of 20 units is required for the associate in science degree and certificate.

- MT 109 Survey of Machining 4
- WLD T 106 Beginning Welding 3
- WLD T 107 Advanced Welding 3
- WLD T 306 Layout and Fabrication Interpretation 3
- WLD T 315 Metal Fabrication 4
- WLD T 381 Industrial Math 3

Welding Technology: Pipe Welding (Certificate of Achievement)
A major of 19 units is required for the associate in science degree and certificate.

- MT 109 Survey of Machining 4
- WLD T 106 Beginning Welding 3
- WLD T 107 Advanced Welding 3
- WLD T 306 Layout and Fabrication Interpretation 3
- WLD T 312 Pipe Fitting and Welding 3
- WLD T 381 Industrial Math 3