

Welding

Welding, an essential skill used in manufacturing and technology, is continually sought after among employers in this industry.

In 'Introduction to Welding,' the first course in this program, students learn the basics of welding in CCM's all new welding lab in the Advanced Manufacturing and Engineering Center. This course is a prerequisite for continuing training, as it is an opportunity for students to understand what is involved and to see if this vocation is a good fit for them.

In our longer follow-up course, 'AWS Level 1 Welding,' students committed to this vocation will gain the skills and practice hours in order to prepare for the American Welding Society (AWS) Level 1 Entry-Welder certification exam. In this program, you will learn the differences and applications of the four main welding processes: Flux (FCAW or Flux Cored Arc Welding), Stick (SMAW or Shielded Metal Arc Welding), MIG (Metal, Inert Gas) and TIG (Tungsten, Inert Gas) welding and will prepare you to successfully pass an AWS Level 1 Entry-Welder certification exam.

Students are expected to supply their own safety gear/clothing including:

- Safety Glasses
- Arc Helmet min shade #10
- Shade 5 cutting glasses
- Hearing protection
- Gauntlet Welding Gloves
- TIG Welding Gloves
- Work Shoes
- Cotton Denim or Flame-Retardant Jeans and Shirt
- Welding Jacket (optional, but highly recommended)

Course Code	Course Title	CEUs
WDT-333E	Introduction to Welding	6.3
WDT-215E	AWS Level 1 - Welding - Bundle	20

For information on current course offerings and how to register, please go to our website (<https://www.ccm.edu/workforce-development/>).

Courses

Introduction to Welding

This course will introduce students to welding technology and welding theory with an emphasis on basic Stick and MIG welding and operating procedures. Additional topics include hand tool and power tool use, measurement, welding career potentials and introduction to welding codes and standards. The objective of this course is to introduce students to the field of welding, build their knowledge from the ground up, and enable them to acquire a range of skills in this industry. Under the guidance of the instructor, students will have the opportunity to practice welding and create a solid welding foundation to prepare them for the AWS Level 1 course. WDT-333E.

AWS Level 1 - Welding - Bundle

PREREQUISITE: Introduction to Welding course, or 1 year of work experience in the welding field. In this 200-hour program, you will learn the differences and applications of the four main welding processes: Flux (FCAW or Flux Cored Arc Welding), Stick (SMAW or Shielded Metal Arc Welding), MIG (Metal, Inert Gas) and TIG (Tungsten, Inert Gas) welding. You will prepare to successfully pass the AWS Level 1 Entry-Welder certification exam. All students will begin with courses that include occupational orientation, basic health and safety of welders and drawing and welding symbol interpretation. Students will be able to rotate into process specific instructional modules upon completion of these courses. In addition to the four welding processes, students will also learn thermal cutting and the foundation of welding inspection and testing. WDT-215E.
