WELDING

LIMITED ENROLLMENT
Delivery method: On campus
Program begins: Fall

Program Description

The one-year Welding program provides students with basic skills for an entry-level job or apprenticeship program. Students spend most time in a modern, well-equipped lab practicing different welding techniques: oxyacetylene, gas tungsten arc, flux cored arc, shielded metal arc, and gas metal arc. In shielded metal arc welding, students develop skills needed to pass the Certified Welder test of the American Welding Society. Enrollment is limited to space available beginning in the fall. A third semester of advanced welding courses is available to interested students.

Preparation

Background in these areas is helpful: basic math, metrics (conversion), geometry, trigonometry, and basic drafting. Courses in physics, chemistry, electricity, and computer technology are useful and some knowledge of metallurgy. Welders need good eyesight, hand-eye coordination, manual dexterity, and ability to concentrate on detailed work for long periods. They should be physically fit and able to work in awkward positions.

Program Requirements

Students who complete the curriculum requirements earn a Program Certificate (37 credits). Additional coursework may lead to a Diploma (61 credits) or Associate in Applied Science degree (64 credits).

Required Program Entrance Scores

- ACT: Math 15, Reading 15
- CLASSIC ACCUPLACER: Math 40 (Elementary Algebra), Reading 61
- NEXT GEN ACCUPLACER: Math 236 (QR, Algebra, and Statistics), Reading 240

Special Costs

A $100 deposit, required upon acceptance into the program, is applied toward tuition. Fee is non-refundable if you decide not to attend BSC.

Career Opportunities

Skilled welders are in great demand. Six in 10 welders work in manufacturing. Jobs are concentrated in fabricated metal products, transportation equipment, machinery, architectural and structural metals, and construction. Welders can advance to more skilled jobs with additional training and experience to become welding technicians, supervisors, inspectors, or instructors. Some experienced welders open their own shops.

Additional Information

Industry Technical Standards

Awareness of the following technical standards may help students determine suitability for this career.

- Noise level in work environment is usually noisy.
- Requires good manual dexterity, good color vision and hearing, and ability to speak.
- Requires continuous walking, frequent standing, bending, stooping, climbing stairs and ladders, kneeling, lifting and carrying up to 50 pounds, reaching above and below shoulder level, and occasional sitting, crawling, lifting 100 pounds from knee to shoulder high, pushing and pulling up to 25 pounds.
- Specific vision abilities include close vision, color vision, depth perception, and ability to adjust focus.
- Continuously exposed to noise; frequently exposed to dirt, dust, fumes, chemicals, and extreme heat and cold, and occasionally exposed to vibration, poor ventilation, and confined areas. Respiratory concerns should be discussed with an instructor.

Contact

Kyle Mattson • Tech Center 105E
701-224-2672
kyle.l.mattson@bismarckstate.edu

BISMARCK STATE COLLEGE | North Dakota's Polytechnic Institution

Degree Plans

- Welding Associate in Applied Science
- Welding Diploma
- Welding Program Certificate