According to the American Welding Society (AWS), there are currently 600,000 welding jobs available in the U.S. With the lack of skilled workers, only half of those positions are currently filled. Employers are currently seeking a new skilled workforce with an understanding of fabrication, welding and repair techniques as well as other differentiated attributes.

The welding career field has a variety of job levels and responsibilities. Common career opportunities include:

- Fitters: Welders that set up material, pipe or plate, for the certified welder.
- Tack Welders: Fitters that tack the weld joints prior to large weldments.
- Fabricators: Welders who use welding to fabricate items with metal.
- Welders: Welders usually in manufacturing industry, with only one process.
- Combination Welders: Welders that can weld with more than one process.
- Certified Welder: Welder with credentials that prove his ability to repeat 100% weld quality.
- Solder: Welders who work with low temperature material joining.
- Welder Inspector: Those certified to inspect the welding from other welders.
- Welding Engineer: A mechanical engineer certified in the welding specifications.
- Welding Sales: Individuals who work for the suppliers for the welding field.
- Shop Owners: business owners that are established in the welding field.

The Certificate in Welding offered by Great Bay Community College, held at the Seacoast School of Technology in Exeter, New Hampshire, will provide graduates with the ability to meet the needs of entry and intermediate skill levels to acquire sustainable jobs in the field of welding. Upon completion of the program, students may be proficient in the use of welding equipment, set up, and operation for the five major processes; MIG, TIG, Stick, Oxy-fuel, and Plasma as well as many of the auxiliary processes such as; FCAW, Aluminum-TIG, Spool guns, etc. The curriculum will also provide students with a solid range of welding theory, blueprint reading, electricity, and fabrication techniques. Upon completion of the program, students will also be prepared for AWS Certification Testing. The program, offered in the evening will consist of three 12 week semesters.

Dual enrollment: Students enrolled in the Welding Certificate program may elect to enroll in the Associate Degree in Technical Studies. Dual enrollment is contingent upon active or graduate status of the certificate. Completion of the Welding certificate satisfies the requirement for the technical specialty core (24 credits) of the Technical Studies degree.

Program Outcomes
Graduates of the Welding Technologies certificate program will:

- Possess basic competency in the five major welding processes.
- Demonstrate proficiency in the use of welding equipment, set up, and operation for the five major processes: MIG, TIG, Stick, Oxy-fuel, and Plasma.
- Demonstrate basic concepts and practices of technical drawing and blueprint reading in accordance with industry standards.
- Articulate safety guidelines and use of machine tools.
- Refine skills to meet code requirements and specifications.
- Demonstrate knowledge of material strengths and weaknesses.
- Articulate industrial quality control procedures.
- Demonstrate fabrication techniques and cost estimation.

How Much Can I Expect to Earn?
To learn more about potential earnings visit;
Bureau of Labor Statistics
www.bls.gov/oco
American Welding Society
www.aws.org

Why Welding Technologies at Great Bay?
- The hands-on program is taught by industry experienced faculty.
- Students are exposed to multiple trade areas such as industrial electricity, plumbing and piping practices.
- Students receive technical training in fabrication.

Gainful Employment Disclosure:
View online at
www.greatbay.edu/GEwelding
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**TOTAL CREDITS** 18

**SUCCESS STRATEGIES**
- Take English and Math in your first semester.
- Meet with your Academic Advisor every semester.
- Explore Transfer opportunities.
- Take advantage of Tutoring Services.
- Consider Summer courses to catch up or get ahead.
- Maintain an overall GPA of 2.0 to graduate.
- Check your student email daily.

**YOUR PATHWAY TO AN ASSOCIATE DEGREE**
This ACADEMIC MAP keeps you on track to graduate in two years.