

## WELDING CERTIFICATE

**Purpose:** RCTC’s Welding Technology program is designed to prepare students for careers in metal joining. The program provides an overview of the basic principles and practical applications of the most commonly utilized welding processes including welding terminology, weld design, blueprint reading, safety, electrical theory, the weld ability of metals and quality control. Instruction will include Welding Theory, blueprint Reading, Shielded Metal Arc, Gas Metal Arc, Gas Tungsten Arc and Oxy-fuel Gas welding in multiple positions as well as brazing and metal cutting. In addition, the program will focus on safety and quality assurance and includes an internship component. RCTC’s Welding Technology Program is a 17-credit certificate intended to be completed in one semester.

**Award**

*Welding Technology Certificate ..... 16 credits*

**\* The course sequence for this program is for Fall or Spring Start as the certificate is one semester.**

| <b>RECOMMENDED FULL-TIME COURSE SEQUENCE</b>   |           |
|--|-----------|
| <i>Not all courses are scheduled every semester. See course schedule: <a href="https://eservices.minnstate.edu/registration/search/basic.html?campusid=306">https://eservices.minnstate.edu/registration/search/basic.html?campusid=306</a>.</i> |           |
| <b>Semester 1</b>  |           |
| WELD 1001 Blueprint Reading, Process Theory & Safety   | 4 cr      |
| WELD 1002 SMAW-Shielded Metal Arc Welding  | 3 cr      |
| WELD 1003 Oxy-Fuel Welding, Cutting & Braze Welding  | 1 cr      |
| WELD 1004 GMAW-Gas Metal Arc Welding   | 3 cr      |
| WELD 1005 GTAW-Gas Tungsten Arc Welding  | 3 cr      |
| WELD 1006 Welding Internship   | 2 cr      |
| <b>Total Credits</b>   | <b>16</b> |

Course descriptions can be found at: <https://www.rctc.edu/academics/courses/course-descriptions>.