

RCTC PROGRAM PLAN

WELDING TECHNOLOGY

Certificate

I. PROGRAM CORE REQUIREMENTS.....16 CREDITS

WELD 1001, Blueprint Reading, Process Theory and Safety, 4 cr

WELD 1002, SMAW-Shielded Metal Arc Welding, 3 cr

WELD 1003, Oxy-fuel Welding, Cutting and 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

TOTAL16 CREDITS

PROGRAM OUTCOMES:

Upon completion of the Welding program at RCTC, students will achieve the following outcomes:

- Demonstrate safe set-up, start-up, usage, shut-down and maintenance of all welding related shop equipment.
- Demonstrate the fundamentals of SMAW, GTAW, GMAW, OFW-A, and PAC.
- Demonstrate critical workplace skills including teamwork, communication, and problem solving.
- Interpret blueprints in terms of line identification, view identification, dimensioning, tolerance and all the standard AWS weld symbols and abbreviations that will be found on fabrication drawings.

ADDITIONAL NOTES:

PURPOSE: The purpose of the Welding Certificate is to provide a one semester intensive hands-on welding program that prepares students for employment in welding and fabrication. Students will develop skills in GMAW, GTAW, SMAW and OXY Fuel cutting/welding as well as blueprint reading, safety and quality with extensive welding lab experience and an internship.

Revised: 02/08/2022

Implementation: Fall 2022