

**Western Dakota Technical Institute
800 Mickelson Drive
Rapid City, SD 57703-4018**

Master Syllabus

Course Number: TTT 129
Course Name: Welding and Equipment
Credits: 2
Contact Hours: 1 Lecture, 2 Lab

Course Description: This course teaches the student safety procedures and familiarization with MIG set-up operations and welding in flat, horizontal, vertical, and overhead positions. In addition, the use and care of oxyacetylene welding and the cutting torch are covered.

Prerequisite: None

Textbooks: <http://bookstore.wdt.edu>

Materials: Safety glasses

Student Learning Outcomes:

- Evaluate safety precautions for arc and gas welding equipment
- Analyze types of welds, weld joints, and four welding position prefixes
- Assess cutting, welding metal, using the cutting torch, plasma torch, and GMAW

Assessment: The core abilities of life skills, analytical skills, and technology skills will be assessed throughout this course.

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