

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

Master Syllabus

Course Number: WDM 151
Course Name: Gas Metal Arc Welding II
Credits: 3
Contact Hours: 1 Lecture; 4 Lab

Course Description: This course is designed to provide the student with a technical understanding of wire welding processes, equipment set-up, metal transfers, and shielding gases including solid and flux core wires. Students will practice developing their welding skills in and out of positions using differing processes to successfully weld various types and thickness of structural metal. Students will weld grooved plate with backing in all positions.

Prerequisites: WDM 103

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

Materials: Welding program tool set

Student Learning Outcomes:

- Demonstrate safe and proper use of all shop tools and equipment
- Perform proper bead construction in accordance with AWS standards
- Evaluate the quality of weldments and diagnose imperfections visually

Assessment: Students' analytical skills, life skills, and technology skills will be assessed throughout this course.

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