

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

Master Syllabus

Course Number: WDM 102
Course Name: Shielded Metal Arc Welding I
Credits: 3
Contact Hours: 1 Lecture; 4 Lab

Course Description: Shielded Metal Arc Welding theory and skills training will allow the student to attain an acceptable level of welding skills. Equipment safety, setup, operation, and maintenance and electrode identification, application, and metallurgy are covered for the welding of ferrous metals. Surface and fillet welds in all positions, along with carbon arc gouging and cutting, will be the main focus in this course.

Prerequisites: None

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

Materials: Welding Tool Set

Student Learning Outcomes:

- Produce SMAW fillet and surface welds in all positions
- Evaluate the quality and structure of weld beads
- Demonstrate safe and proper use of all shop tools and equipment

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

ADA Accommodations: Students Rights to Assistance or Accommodations: Western Dakota Technical Institute (hereinafter WDT) does not discriminate on the basis of disability. If you have a disability as defined by federal or state law, including a temporary disability related to pregnancy and/or parenting as a result of a medical necessity due to childbirth, WDT will provide reasonable accommodations including but not limited to architectural access, aids and services necessary for effective communication, and modification of its policies and procedures. Students with a disability who are requesting an accommodation should contact your instructor and the Student Success Director who serves as the disability coordinator as early as possible in the semester.

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