

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

Master Syllabus

Course Number: WDM 254
Course Name: Shielded Metal Arc Welding IV
Credits: 3
Contact Hours: 1 lecture; 4 lab

Course Description: This course continues the study of SMAW theory and skills training with a focus on 2G, 5G, and 6G pipe. Students will complete these tasks using E7018 and E6010 electrodes.

Prerequisites: WDM 204

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

Materials: Welding 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
- Diagnose imperfections visually

Assessment: Life skills, analytical skills, and technology skills will be assessed throughout this course.

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