

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

**Master Syllabus**

**Course Number:** WDM 153  
**Course Name:** Gas Tungsten Arc Welding I  
**Credits:** 3  
**Contact Hours:** 1 Lecture; 4 Lab

**Course Description:** This course is an introduction to GTAW theory and skills training. Students will learn and apply proper equipment setup and safety related to this process. Fundamentals will be taught on light gauge ferrous material and be joined autogenously and with filler.

**Prerequisites:** None

**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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