

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

Master Syllabus

Course Number: TTT 126
Course Name: Engine Performance Lab
Credits: 6
Contact Hours: 12 Lab

Course Description: This course is designed to provide the student with the necessary hands-on instruction to diagnose and repair ignition-, fuel-, and emissions-related drivability problems.

Prerequisites: None

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

Materials: Personal tools from list, leather shoes, safety glasses, and program uniform

Student Learning Outcomes:

- Analyze transportation vehicles computerized electronic controlled systems by testing various engine management sensors and switches
- Evaluate gasoline and diesel fuel injection systems
- Demonstrate ability to replace fuel system components on vehicles in the transportation technology fields
- Evaluate codes retrieved by scan tool from vehicles in the transportation technology fields

Assessment: The core abilities of analytical skills, communication skills, technology skills, teamwork techniques, social skills, and employability 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.

Notice of Non-Discrimination: WDT will not tolerate racism, discrimination, harassment, exploitation or victimization of students, school employees, non-

employees, or any person who is an invitee of WDT for any reason, including but not limited to race, color, ethnic background, national origin, pregnancy, student marital status, religion, creed, age, sex, citizenship, political affiliation, mental and/or physical challenge, disability, sexual orientation, gender identity, or status as a veteran. WDT is committed to providing an environment free from harassment and other forms of discrimination for students, employees, non-employees and its invitees. The following person has been designated to handle inquiries or complaints regarding the non-discrimination policies: Student Success Director