

SOUTHEAST COMMUNITY COLLEGE
ADVANCED TECHNOLOGIES & SKILLED TRADES DIVISION
AUTOMOTIVE STUDENT SERVICE EDUCATIONAL TRAINING (ASSET)
COURSE SYLLABUS
September 10, 2025

I. CATALOG DESCRIPTION

Course Number: ASST2901
Course Title: Dealer Cooperative Experience
Prerequisite(s): ASST1111 & ASST1116

Catalog Description: Coordinated work experience from Ford dealer in accordance with program schedule. Work experience supervised by Southeast Community College-Milford and ASSET coordinator.

Credit Hour: 5.0
Class Hours: 0
Lab Hours: 300
Total Contact Hours: 300

II. COURSE OBJECTIVES: *Course will:*

- A. Cover shop procedures and practices.
- B. Cover diagnosing and repairing of various vehicles; makes and models.
- C. Cover journal keeping and documentation.
- D. Cover Ford web-based training courses.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES

A. STUDENT LEARNING OUTCOMES: *The student will be able to:*

1. Troubleshoot and repair Ford fuel injection systems.
2. Perform scheduled maintenance and service having to do with engine performance.
3. Diagnose and repair drivability complaints.
4. Diagnostic equipment.
5. Test fuels and systems.
6. Test the engines mechanical combustion components.
7. Use Ford manuals to diagnose drivability complaints.
8. Work on the air/fuel management system, ignition system, and emission systems.
9. Troubleshoot and repair Ford gas and diesel engines.
10. Understand the operation of the engine.
11. Replace a timing belt and/or chain.
12. Replace a head gasket.
13. Test and diagnose the engine.
14. Perform an engine removal and install.
15. Diagnose engine noises and repair.
16. Diagnose and repair leaks.
17. Replace a fuel injector.
18. Replace the fuel filter.

19. Diagnosis and Service of Ford Diesel System

B. GENERAL EDUCATION LEARNING OUTCOMES:

GELO #3: Critical Thinking & Problem Solving

Outcome:

1. Collect, identify, interpret and analyze data.

IV. CONTENT/UNIT OF INSTRUCTION

- A. Engine drivability and diagnosis
- B. Diesel engine diagnosis and service
- C. Diagnostic scanners and tools
- D. Diagnostic procedures
- E. Drivability complaints and correction of complaints
- F. Engine overhaul
- G. In car engine repairs and procedures
- H. Noise diagnosis and repair
- I. Leak diagnosis and repair

V. INSTRUCTIONAL MATERIALS

The course information document lists the current text(s) required for this class. The list is also available in the campus bookstore. The course information document also lists the tools/equipment or other supplies required for this class.

VI. METHODS OF PRESENTATION / INSTRUCTION

A. Methods of presentation typically include a combination of the following:

1. The student is to learn the needed skills under a mentor technician, covering the tasks presented to them.

VII. METHODS OF EVALUATION

A. Methods of evaluation typically include a combination of the following:

1. Dealer personnel evaluations
2. Mentor technician evaluations
3. Weekly worksheets
4. Instructor evaluations
5. Attendance: Punctual and regular attendance is required as stated in the student handbook or class outline.

Letter grades will be based on the SCC Standard Grade Scale Policy. **Note:** See course information document for specific details on how the course grades will be calculated.

VIII. SPECIFIC COURSE REQUIREMENTS

A. Student must:

1. Complete all tests, projects, assignments, and notebook (if required).
2. Earn a final grade of 70% (2.0) or higher to progress in the program.

B. Attendance:

1. Student must follow the Attendance Policy as stated in the college student handbook, automotive lab and classroom policies handbook or Course Information Document.

C. Shop safety rules will be followed.

D. Any additional course requirements as stipulated by the Instructor.