

Washtenaw Community College Comprehensive Report

ASV 270 Automotive Test and Development Effective Term: Fall 2025

Course Cover

College: Advanced Technologies and Public Service Careers

Division: Advanced Technologies and Public Service Careers

Department: Transportation Technologies

Discipline: Auto Services (new)

Course Number: 270

Org Number: 14100

Full Course Title: Automotive Test and Development

Transcript Title: Auto Test and Development

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: Inactivation

Change Information:

Consultation with all departments affected by this course is required.

Rationale: This course has been removed from all programs as of Fall 2022. It was not offered Winter or Spring/Summer 2022. This course was removed because of equipment limitations. The programs that utilized it were reformatted to better utilized the resources between the ASV, ABR, and MST courses.

Proposed Start Semester: Fall 2025

Course Description: In this course, students will learn about the application of automotive testing systems used during the development of automobiles. Students will learn the principles of component testing. The focus of this course allows students to gain practical experience in the laboratory utilizing a mapping test stand that will analyze an engine assembly for defects. The students will enter engine defects and collect data using commonly accepted test procedures to validate the testing process.

Course Credit Hours

Variable hours: No

Credits: 4

Lecture Hours: Instructor: 60 **Student:** 60

Lab: Instructor: 45 **Student:** 45

Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 105 **Student:** 105

Repeatable for Credit: YES

Number of times the course can be repeated for credit: 1

Maximum Hours: 8

Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites**Prerequisite** minimum grade "C"

ASV131

Prerequisite minimum grade "C"

ASV132

General Education**Request Course Transfer****Proposed For:****Student Learning Outcomes**

1. Apply testing principles to determine defects using a project engine on a mapping stand.

Assessment 1

Assessment Tool: Project

Assessment Date: Fall 2016

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of students will score 75% or better.

Who will score and analyze the data: ASV faculty

Course Objectives

1. Recognize and apply automotive engine testing techniques including pressure signal limits and torque signal characteristics.

New Resources for Course**Course Textbooks/Resources**

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities**Reviewer****Action****Date****Faculty Preparer:***Allen Day**Faculty Preparer**Jun 25, 2024***Department Chair/Area Director:***Rocky Roberts**Recommend Approval**Jun 26, 2024***Dean:***Eva Samulski**Recommend Approval**Jun 27, 2024***Curriculum Committee Chair:***Randy Van Wagnen**Reviewed**Mar 20, 2025***Assessment Committee Chair:****Vice President for Instruction:***Brandon Tucker**Approve**Mar 21, 2025*

Washtenaw Community College Comprehensive Report

ASV 270 Automotive Test and Development

Conditional Approval

Effective Term: Fall 2015

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: Automotive Services

Discipline: Auto Services

Course Number: 270

Org Number: 14100

Full Course Title: Automotive Test and Development

Transcript Title: Auto Test and Development

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: New Course

Change Information:

Rationale: This course is one of three new courses that support the Powertrain Development Technician and Automotive Test Technician programs.

Proposed Start Semester: Fall 2015

Course Description: In this course, students will learn about the application of automotive testing systems used during the development of automobiles. Students will learn the principles of component testing. The focus of this course allows students to gain practical experience in the laboratory utilizing a mapping test stand that will analyze an engine assembly for defects. The students will enter engine defects and collect data using commonly accepted test procedures to validate the testing process.

Course Credit Hours

Variable hours: No

Credits: 4

Lecture Hours: Instructor: 60 **Student:** 60

Lab: Instructor: 45 **Student:** 45

Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 105 **Student:** 105

Repeatable for Credit: YES

Number of times the course can be repeated for credit: 1

Maximum Hours: 8

Grading Methods: Letter Grades

Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites

Prerequisite minimum grade "C"

ASV131

Prerequisite minimum grade "C"

ASV132

General Education
Request Course Transfer
Proposed For:

Student Learning Outcomes

1. Apply testing principles to determine defects using a project engine on a mapping stand.

Assessment 1

Assessment Tool: Project

Assessment Date: Fall 2016

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of students will score 75% or better.

Who will score and analyze the data: ASV faculty

Course Objectives

1. Recognize and apply automotive engine testing techniques including pressure signal limits and torque signal characteristics.

Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Reviewer

Action

Date

Faculty Preparer:

Allen Day

Faculty Preparer

Apr 06, 2015

Department Chair/Area Director:

Allen Day

Recommend Approval

Apr 06, 2015

Dean:

Brandon Tucker

Recommend Approval

Apr 14, 2015

Vice President for Instruction:

Bill Abernethy

Conditional Approval

Apr 17, 2015