

## Washtenaw Community College Comprehensive Report

### MST 130 Motorcycle Service Technology III Effective Term: Fall 2025

#### Course Cover

**College:** Advanced Technologies and Public Service Careers

**Division:** Advanced Technologies and Public Service Careers

**Department:** Transportation Technologies

**Discipline:** Motorcycle Service Technology (new)

**Course Number:** 130

**Org Number:** 14100

**Full Course Title:** Motorcycle Service Technology III

**Transcript Title:** Motorcycle Serv Technology III

**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:** The motorcycle programs have been inactivated. We have decided to inactivate the courses that are not part of the existing programs in the transportation department.

**Proposed Start Semester:** Fall 2019

**Course Description:** In this course, students focus on problem-solving strategies for isolating defective components, troubleshooting and repair. Students will work on wiring harness, charging system, ignition system and starting system components. The principles, components, operation, troubleshooting, service and repair of both carbureted and fuel-injected systems will be covered.

#### Course Credit Hours

**Variable hours:** No

**Credits:** 4

**Lecture Hours: Instructor:** 45 **Student:** 45

**Lab: Instructor:** 60 **Student:** 60

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

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

**Repeatable for Credit:** NO

**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**

MST 120 minimum grade "C"

#### General Education

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

1. Demonstrate time and quality proficiency in troubleshooting, servicing and repairing of wiring harnesses, charging, ignition and starting systems.

**Assessment 1**

Assessment Tool: Final and practical lab exams

Assessment Date: Winter 2017

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: 70% of the students will score 70% or higher.

Who will score and analyze the data: Department faculty

2. Demonstrate time and quality proficiency in diagnosing, servicing and repairing of fuel delivery systems.

**Assessment 1**

Assessment Tool: Final and practical lab exams

Assessment Date: Winter 2017

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: 70% of the student will score 70% or higher.

Who will score and analyze the data: Department faculty

**Course Objectives**

1. Read and interpret wiring diagrams, electrical flow charts and isolate defective components.
2. Compare wiring diagrams and electrical flow charts to wiring harnesses and identify defective components.
3. Diagnose, service and repair wiring harnesses, charging systems, ignition and starting systems.
4. Identify components and operation of carbureted and fuel injected systems.
5. Diagnose, service and repair constant velocity and slide type carburetors.
6. Diagnose, service and repair fuel injection systems.

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

Textbooks

Manuals

Periodicals

Software

**Equipment/Facilities**

Level III classroom

**Reviewer****Faculty Preparer:***Shawn Deron***Action***Faculty Preparer***Date***Mar 27, 2024*



# Washtenaw Community College Comprehensive Report

## MST 130 Motorcycle Service Technology III

Effective Term: Winter 2015

### Course Cover

**Division:** Advanced Technologies and Public Service Careers

**Department:** Motorcycle Technology

**Discipline:** Motorcycle Service Technology

**Course Number:** 130

**Org Number:** 14140

**Full Course Title:** Motorcycle Service Technology III

**Transcript Title:** Motorcycle Serv Technology III

**Is Consultation with other department(s) required:** No

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

**Reason for Submission:** Three Year Review / Assessment Report

**Change Information:**

**Consultation with all departments affected by this course is required.**

**Course description**

**Outcomes/Assessment**

**Objectives/Evaluation**

**Rationale:** Regular three-year review as the result of an assessment report.

**Proposed Start Semester:** Winter 2015

**Course Description:** In this course, students focus on problem-solving strategies for isolating defective components, troubleshooting and repair. Students will work on wiring harness, charging system, ignition system and starting system components. The principles, components, operation, troubleshooting, service and repair of both carbureted and fuel-injected systems will be covered.

### Course Credit Hours

**Variable hours:** No

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**Lecture Hours: Instructor:** 45 **Student:** 45

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**Repeatable for Credit:** NO

**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**

MST 120 minimum grade "C"

### General Education

### Request Course Transfer

## Proposed For:

### Student Learning Outcomes

1. Demonstrate time and quality proficiency in troubleshooting, servicing and repairing of wiring harnesses, charging, ignition and starting systems.

#### **Assessment 1**

**Assessment Tool:** Final and practical lab exams

**Assessment Date:** Winter 2017

**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:** 70% of the students will score 70% or higher.

**Who will score and analyze the data:** Department faculty

2. Demonstrate time and quality proficiency in diagnosing, servicing and repairing of fuel delivery systems.

#### **Assessment 1**

**Assessment Tool:** Final and practical lab exams

**Assessment Date:** Winter 2017

**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:** 70% of the student will score 70% or higher.

**Who will score and analyze the data:** Department faculty

### Course Objectives

1. Read and interpret wiring diagrams, electrical flow charts and isolate defective components.

#### **Matched Outcomes**

2. Compare wiring diagrams and electrical flow charts to wiring harnesses and identify defective components.

#### **Matched Outcomes**

3. Diagnose, service and repair wiring harnesses, charging systems, ignition and starting systems.

#### **Matched Outcomes**

4. Identify components and operation of carbureted and fuel injected systems.

#### **Matched Outcomes**

5. Diagnose, service and repair constant velocity and slide type carburetors.

#### **Matched Outcomes**

6. Diagnose, service and repair fuel injection systems.

#### **Matched Outcomes**

### New Resources for Course

#### Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

#### Equipment/Facilities

Level III classroom

Reviewer

Action

Date

**Faculty Preparer:***Michael Shute**Faculty Preparer**Apr 30, 2014***Department Chair/Area Director:***Shawn Deron**Recommend Approval**Apr 30, 2014***Dean:***Marilyn Donham**Recommend Approval**May 07, 2014***Vice President for Instruction:***Bill Abernethy**Approve**Aug 21, 2014*