

# Motorcycle Repair & Maintenance

## Motorcycle Repair & Maintenance (MOTR) Classes

### MOTR110G : Product, PDI, and Dealer Experience

The purpose of this course is for students to be introduced to basic processes related to preparation and delivery of motorcycles, and to understand basic procedures involved in the set-up and delivery process. Students will learn and apply procedures, use reference materials, become familiar with shop practices relevant to set-up and delivery. In addition, students will be introduced to basic organizational practices and receive an overview of maintenance workflow from intake and service writing, set-up, and delivery.

**Credits** 4

**Theory Hours** 2

**Lab Hours** 4

**Prerequisites**

Acceptance to program

**Corequisites**

[MOTR120G](#) and [MOTR130G](#)

**Semester Offered**

Fall semester

### MOTR120G : Powertrains: Engine, Drivetrain, and Transmission

This course introduces students to internal combustion engines, transmissions, fuel systems, and provides students with opportunities to use and apply references information to understanding, diagnosing, and resolving basic powertrain problems. Students will learn, practice, and demonstrate mastery of making accurate measurements using precision tools, and work on all basic aspects of the drivetrain. Students will disassemble and reassemble drivetrain components to understand the function and potential problems with these components. Students will focus on shop safety, and review and practice professional communication skills throughout the course.

**Credits** 4

**Theory Hours** 2

**Lab Hours** 4

**Prerequisites**

Acceptance to program

**Corequisites**

[MOTR110G](#) and [MOTR130G](#)

**Semester Offered**

Fall semester

## MOTR130G : Electrical Systems and Electrical Service Procedures

In this course, learn basic aspects of electrical system diagnosis and service, as well as relevant theoretical understanding of electrical system theory. In addition, students will learn, practice, explain, and demonstrate mastery of electrical service procedures.

**Credits** 4

**Theory Hours** 2

**Lab Hours** 4

**Prerequisites**

Acceptance to program

**Corequisites**

[MOTR110G](#) and [MOTR120G](#)

**Semester Offered**

Fall semester

## MOTR140G : Wheels, Tires, and Brakes

In this course, students will learn inspection procedures, service, and repair of wheels, tires, and brakes for various models of motorcycles. In addition, students will learn, practice, explain, and demonstrate mastery of the recommended service procedures and preventative maintenance of wheels, tires, and brakes at specified intervals.

**Credits** 4

**Theory Hours** 2

**Lab Hours** 4

**Prerequisites**

Successful completion of [MOTR110G](#), 120G, and 130G, or permission of program coordinator

**Semester Offered**

Spring semester

## MOTR150G : Capstone: Servicing Motorcycle Families

This course will focus on the procedures and knowledge required to service contemporary models of motorcycles, including: Sportster, Dyna, Softail, Street, FL, and Trike. Students will integrate and apply knowledge from previous courses to all aspects of each type of motorcycle. Areas of focus will include inspection and maintenance of powertrain elements, electrical systems, scheduled service procedures, wheels, tire, and brakes, preparing motorcycles for service, and delivering motorcycles when service is completed. Students will periodically observe professional technicians working in similar circumstances in the maintenance shop of the dealership.

**Credits** 8

**Theory Hours** 4

**Lab Hours** 8

**Prerequisites**

Successful completion of MOTR 110G, 120G, and 130G, or permission of program coordinator

**Co-Requisite Courses**

[MOTR140G: Wheels, Tires, and Brakes](#)

**Semester Offered**

Spring semester