

MOTO - 1003 Intro to Shop Service Basics, 3.00 Credits

Level: Lower

Applied Learning-Practicum

This course will familiarize the student with the general operation of a motorcycle and power sports repair facility. Topics will include: typical business operating procedures, safety, tools, equipment, and hazardous materials.

MOTO - 1005 Basic Electrical Systems, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course will introduce the students to electrical fundamentals including circuit designs and circuit calculations. Common electrical components, operation, and testing will also be included.

MOTO - 1015 Welding & Fabrication, 5.00 Credits

Level: Lower

Applied Learning-Practicum, Course Fee \$129.00

This course will familiarize the student with all common welding and fabrication techniques using a variety of equipment including: oxy-acetylene torches, Arc welders, M.I.G. welders, T.I.G. welders, plasma cutters, metal breaks, and metal sheers.

MOTO - 1025 Brake Systems, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover brake systems used on all types of motorcycles and power sports vehicles. Topics covered include: Component identification, hydraulic principals and component operation including anti-lock brakes; diagnosis and service of brake systems.

MOTO - 2005 Starting & Charging Systems, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover starting and charging systems used on all types of motorcycles and power sports vehicles. Topics covered include: Starter types, Alternator/Generator types, system wiring, testing and diagnosis.

MOTO - 2013 Inspection & Preventative Mntn, 3.00 Credits

Level: Lower

Applied Learning-Practicum

This course focuses on NYS vehicle inspection, vehicle maintenance, heating and air conditioning systems.

MOTO - 2015 Suspension & Steering Systems, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover suspension and steering systems used on all types of motorcycles and power sports vehicles. Topics covered include: Component identification, operation of suspension and steering systems; wheel alignment principals, measurement, and adjustments; diagnosis of steering and suspension concerns; steering and suspension component removal and replacement.

MOTO - 2035 Fuel & Ignition Systems, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover ignition and fuel systems used on all types of motorcycles and power sports vehicles. Topics covered include: Carburation, fuel injection, magnetos, point ignition, and electronic ignition.

MOTO - 3003 Diesel Engines, 3.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover diesel engines used on all types of power sports vehicles. Topics covered included: engine operation, fuel systems, diagnosis, and service procedures.

MOTO - 3005 Two & Four Stroke Engines, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover the air and water cooled two and four stroke engine used on all types of motorcycles and power sports vehicles. Topics covered include: engine operation, diagnosis, and service procedures.

MOTO - 3015 Transmissions, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover all types of motorcycles and power sport vehicle transmissions. Topics covered include: Transmission types operation, diagnosis, and service procedures.

MOTO - 3035 Drive Systems, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover all types of motorcycles, power sport, and marine vehicle drive systems. Topics covered include: Drive system types operation, diagnosis, and service procedures.

MOTO - 4005 Advanced Drivability, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover the use of advanced technologies and procedures to diagnose and repair drivability concerns. Instruction will focus on the use of advanced test equipment to diagnosis concerns in computer controlled systems used on modern motorcycles and power sports vehicles.

MOTO - 4015 Advanced Electrical, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover the use of advanced technologies and procedures to diagnose and repair electrical concerns. Instruction will focus on the use of advanced test equipment to diagnosis concerns in all electrical systems used on modern motorcycles and power sports vehicles.

MOTO - 4023 Exhaust & Induction Systems, 3.00 Credits

Level: Lower

Applied Learning-Practicum

This course will cover exhaust and induction systems used on all types of motorcycles and power sports vehicles. Topics covered include: exhaust, intake, and forced induction; diagnosis and service.

MOTO - 4025 Advanced Applications, 5.00 Credits

Level: Lower

Applied Learning-Practicum

This course focuses on repair facility management practices. Paperwork processing, employee and customer relations are included.