Course Number: MOTO-0289          OHLAP Credit: No
OCAS Code: None
Course Length: 120 Hours
Career Cluster: Transportation, Distribution, and Logistics
Career Pathway: Facility and Mobile Equipment Maintenance
Career Major(s): Motorcycle and Watercraft Technician

Pre-requisite(s): 

Course Description: The Motorcycle Electronic/Electrical Systems Maintenance course provides students with electrical systems theory to build an overall understanding of the most common electrical systems found on modern motorcycles. This theory is then used to identify the cause and affect situations that arise from these complex electrical systems. Students will then develop electrical troubleshooting and diagnosis skills to support effective electrical systems maintenance strategies.


Course Objectives: A. Demonstrate an Understanding of Motorcycle Battery Servicing.

1. Remove and clean a motorcycle battery. 
2. Service and install a motorcycle battery.

B. Demonstrate an Understanding of Motorcycle Electronic Systems.

1. Inspect/troubleshoot/repair the electrical starter system
2. Inspect/troubleshoot/repair ignition system
3. Inspect/troubleshoot/repair the charging system
4. Inspect/troubleshoot/repair the lighting system
5. Trace a motorcycle electrical circuit on a wiring diagram
6. Splice and solder electrical wires and repair solderless connectors

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.
Grading Procedures:
1. Students are graded on theory and shop practice and performance.
2. Each course must be passed with seventy (70%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.

Description of Classroom, Laboratories, and Equipment:
Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit:
The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee, Rogers State University or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility:
The student must maintain a grade point average of 2.0 or better.