MOTORCYCLE PREVENTIVE MAINTENANCE
Course Syllabus

Course Number: MOTO-0840
OCAS Code: None
Course Length: 90 Hours
Career Cluster: Transportation, Distribution, and Logistics
Career Pathway: Facility and Mobile Equipment Maintenance
Career Major(s): Motorcycle and Watercraft Technician

Pre-requisite(s):
The Motorcycle Preventative Maintenance course provides students with supportive background and theoretical information to develop effective skills for maintaining modern motorcycles. The course is rich in hands-on activities associated with daily maintenance tasks in the motorcycle shop such as fastener servicing, diagnosing internal engine condition without teardown, servicing and adjusting valve train components, fuel delivery system service, external component service, new unit setup, and inspection operations.


Course Objectives:

A. Perform Preventative Maintenance for Motorcycles
1. Demonstrate the tightening sequence and list torque values for a selected component from a service manual
2. Repair damaged threads using a thread repair kit
3. Remove a broken bolt using a screw extractor set
4. Troubleshoot a no-start complaint on a one-cylinder motorcycle engine
5. Perform a compression test on a motorcycle engine
6. Perform a leak-down test on a motorcycle engine
7. Adjust the valves on a motorcycle engine
8. Adjust cam chain tension
9. Service an air filter
10. Adjust a motorcycle carburetor
11. Synchronizes carburetors on a multi-cylinder motorcycle engine
12. Change engine oil and filter and service all fluids
13. Remove, lubricate, and replace control cables

B. Detail a motorcycle or an ATV

C. Demonstrate an Understanding of the Steps Required of a New Motorcycle.
1. Uncrate a new motorcycle and prepare it for assembly
2. Assemble a new vehicle
3. Prepare a new motorcycle for delivery

D. Inspect and Service Drive-Train
1. Inspect and adjust primary chain
2. Gear drive
E. **Perform Preventive Maintenance Inspections.**
   1. Inspect tire condition and adjust tire pressure
   2. Inspect brake wear and operation
   3. Inspect electrical components

   1 ODCTE, Motorcycle Technician Skills Standards, Duty B

**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.