

Motive Power Fundamentals- Motorcycle and Sport Vehicle Repair

Program Learning Outcomes

Learning outcomes represent culminating demonstrations of learning and achievement. In addition, learning outcomes are interrelated and cannot be viewed in isolation of one another. As such, they should be viewed as a comprehensive whole. They describe performances that demonstrate that significant integrated learning by graduates of the program has been achieved.

The graduate has reliably demonstrated the ability to

1. Identify basic motive power system problems by using critical thinking skills and strategies and by applying fundamental knowledge of motor vehicle operation, components, and their interrelationships.
2. Identify, inspect, and test basic engine components and systems in compliance with manufacturer's recommendations.
3. Identify, inspect, and test basic electrical, electronic, and emission components and systems in compliance with manufacturers' recommendations.
4. Identify, inspect, and test basic drive train components and systems in compliance with manufacturers' recommendations.
5. Identify, inspect, and test basic suspension, steering, and brake components and systems in compliance with manufacturers' recommendations.
6. Disassemble and assemble components to required specifications by applying workshop skills and knowledge of basic shop practices.
7. Use a variety of test equipment to assess basic electronic circuits, vehicle systems, and subsystems.
8. Apply basic knowledge of hydraulics and pneumatics to the testing and inspection of basic motive power systems and subsystems.
9. Communicate information effectively, credibly, and accurately by producing supporting documentation to appropriate standards.
10. Use information technology and computer skills to access data concerning repair procedures and manufacturers' updates.
11. Prepare logs, records, and documentation to appropriate standards.
12. Apply business practices and communication skills to improve customer service.
13. Develop and use personal and professional strategies and plans to improve professional growth, job performance, and work relationships.
14. Complete all assigned work in compliance with occupational, health, safety, and environment law; established policies and procedures; codes and regulations; and in accordance with ethical principles.
15. Inspect and measure motorcycle and recreational vehicle frame systems for cracks, bends and alignment in compliance with manufacturers' recommendations.
16. Inspect, test and replace wheels and tires on motorcycles and recreational vehicles in compliance with manufacturers' recommendations and Ministry of Transportation of Ontario guidelines.