SEACOAST SCHOOL OF TECHNOLOGY Automotive Technologies Competencies

Technical Competencies

- Identify and describe the operation of the engine.
- 2. Evaluate condition and perform maintenance and light repair of the engine.
- Evaluate condition and perform maintenance and light repair of the lubrication and cooling system.
- 4. Evaluate condition and perform maintenance and light repair of the automatic transmission & transaxle.
- 5. Evaluate condition and perform maintenance and light repair of the manual transmission & transaxle.
- 6. Evaluate the condition and perform maintenance and light repair of suspension and steering systems.
- 7. Evaluate the condition and perform maintenance and light repair of wheels and tires...
- 8. Identify and describe operation of hydraulic and related systems.
- 9. Evaluate condition and perform maintenance and light repair of brake hydraulic and related systems.
- 10. Evaluate condition and perform maintenance and light repair of drum brakes.
- 11. Identify and describe the operation of disc brakes.
- 12. Evaluate condition and perform maintenance and light repair of disc brakes.
- 13. Evaluate condition and perform maintenance/light repair of miscellaneous parts of braking system.
- 14. Identify and describe operation of basic electrical systems.
- 15. Evaluate condition and perform maintenance and light repair of basic electrical systems.
- 16. Identify and describe operation of battery, starting and charging systems.
- 17. Evaluate condition and perform maintenance and light repair of battery, starting and charging systems.
- 18. Evaluate condition and perform maintenance and light repair of lightening and accessories.

- Evaluate condition and perform maintenance/light repair of heating and air conditioning.
- 20. Evaluate condition and perform maintenance/light repair of general engine performance.
- 21. Evaluate condition and perform maintenance/light repair of computerized engine controls.
- 22. Evaluate condition and perform maintenance/light repair of fuel air induction and exhaust systems.
- 23. Research applicable customer, vehicle and service information.
- 24. Identify, describe and demonstrate shop and personal safety procedures.
- 25. Identify, describe and demonstrate proper use of tools and equipment.
- 26. Identify, describe and demonstrate proper vehicle preparation.
- 27. Identify, describe and demonstrate proper customer service.
- 28. Identify and describe general Hybrid safety precautions.

Core Competencies

- 29. Discuss and assess business creation possibilities and the process of opening your own shop.
- 30. Identify and discuss the traits and behaviors of an entrepreneur (leadership, personal assessment, personal management).
- 31. Demonstrate personal growth, community leadership, democratic principles and social responsibility by participating in activities/events offered through student organizations.
- 32. Decision-Making & Problem-Solving:

 Demonstrate and apply good decision-making and problem-solving skills by outlining issues in situations/problems and determining, collecting, and organizing information needed in order to formulate a solution.

- 33. Self-Management: Demonstrate and apply self-management skills by adhering to regulations, being responsible and following through on commitments.
- 34. Communication Skills: Demonstrate and apply effective communications skills: verbal, written, visual and listening.
- 35. Ability to Work with Others: Demonstrate and apply the necessary skills in order to work effectively with others.
- 36. Information Use Research, Analysis & Technology
- 37. Mathematical Concepts: Demonstrate mathematical and computation skills as applied to real world situations.
- 38. Career Development: Demonstrate personal/career development skills by completing a career plan.