

Course Outline for MRNT2203 — Marine Advanced Fuel Systems

Credits: 4 (2/2/0)

Description: This course covers the many types of fuel systems used on current 2- and 4-cycle higher-end marine products. Most training will be on horsepower ranges above 70hp in outboard and sterndrive engines. The main focus is on larger carbureted and fuel-injected systems along with fuel distribution and associated parts of those systems.

Prerequisites: (None)

Corequisites: (None)

Competencies:

1. Perform fuel system component removal and replacement.
2. Identify different designs of fuel systems.
3. Perform fuel system repair and service.
4. Demonstrate marine fuel system troubleshooting.
5. Define fuel system components.
6. Explain fuel pump operation.
7. Perform carburetor troubleshooting.
8. Identify different styles of carburetors.
9. Rebuild carburetors according to manufacturer specifications.
10. Test various oil pumps for proper operation.
11. Explain fuel flow circuitry.
12. Identify various fuel injection designs.
13. Explain various fuel tank designs.
14. Demonstrate fuel system safety.
15. Demonstrate proper work environment professionalism.
16. Demonstrate marine mechanical troubleshooting procedures.
17. Demonstrate marine electrical troubleshooting procedures.
18. Fill out a repair order denoting major categories as per manufacturer recommendations and listing the three Cs: Complaint, Cause and Correction.
19. Demonstrate knowledge of proper boat care while conducting service procedures.

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Goal Areas: (None)