

COOLING SYSTEM OPERATION AND PARTS

HEA02e

Course Format: Online training with posttest

I-CAR Points: 0.50

Estimated Duration: 2 hour

This course helps satisfy ProLevel training requirements for the following roles:



Structural Technician



Aluminium Technician

Course Content

Module 1—Cooling System Operation

The course opens by explaining types of heat transfer and cooling systems. Inspection and analysis of heating and cooling methods will be introduced to the student in this module.

Module 2— Radiators and Water Pumps

The second module describes the construction of a radiator and how to properly inspect parts for damage. This module also describes considerations for repairing types of water pumps, coolant passages, and water jackets.

Module 3— Heater and Hoses

The module describes heater cores, valves, and hoses, plus inspection and replacement procedures.

Module 4— Auxiliary Coolers and Temperature Controls

The course concludes highlighting location, inspection, and replacement of oil coolers, thermostats, and electrical controls.

Learning Objectives

- Understand cooling system operation and how to properly inspect parts
- Understand the function of radiators and water pumps, plus considerations for repairing different types of water pumps
- Identify auxiliary coolers and temperature controls