



Arrow Engine Company provides several service schools focused on maintenance, field and shop repairs, and engine safety.

The service schools are taught by David Johnson, who has more than 45 years of experience with Arrow Engine Company and has worked with Arrow customers around the world. This successful service program will enable the personnel responsible for maintenance on the machinery to operate the equipment more efficiently and with less cost.



Operating costs, including downtime, can be reduced when maintenance personnel are well trained. Arrow's goal is to teach both the general principles and the fine points of design, operation, maintenance, and repair of the Arrow A54E engine.



Curriculum

- Manufacturing plant tour
- Internal combustion theory
- Benefits of gas-powered prime movers vs. electric motors:
 - Cost analysis including purchase, repair, and operating costs
- Sizing of gas engines to fit well conditions:
 - Comparison of single-cylinder medium to high-speed multi-cylinder engines
 - Electric motors with explanation of variations
- Calculation of fuel consumption:
 - Sizing of gas lines
 - Use of volume tanks
 - Regulators and fuel scrubbers

Course Outline

- Engine emissions
- Design elements, function troubleshooting, repair, and maintenance of:
 - Cooling system
 - Lubricating system
 - Camshaft assembly
 - Clutches
 - Oil pump and lines
 - Valves, guides, seats
 - Drives
- Proper use of:
 - Antifreeze, coolant
 - Break-in oil
 - Oil types
- Proper engine mounting
- Start-up and operation of:
 - Woodward PG + engine control system
 - Engine control panel
- AutoStart description, application, and operation

2023 Registration Information

A54E SERVICE SCHOOL — October 10–12, 2023

All service school classes will be held on-site at Arrow Engine facilities located in Tulsa, OK. Enrollment is accepted on a first-come, first-served basis. Space is limited so don't delay!

For more information regarding registration, please contact David Johnson at djohnson@arrowengine.com or call 1-800-331-3662.

Student responsibilities:

1. Hotel reservations and costs.
2. Transportation to and from Arrow Engine Company.
3. Safety glasses and protective footwear are required every day.