



## WAUKESHA-PEARCE INDUSTRIES, INC. ENGINE DIVISION TRAINING

Course Name	Gas Engine Technology
Code	GET
Course Length	4.5 Days
Prerequisites	None
Required/Suggested Equipment	None/ Casual or work attire acceptable

Description: This course is the foundation for all engines. The information can be applied to virtually all gas engines and is very comprehensive in all areas of engine maintenance, operation and troubleshooting. This course is recommended for anyone who is responsible for the servicing of Waukesha products, but also for those who desire a thorough understanding of gas engine theory and technology not easily attained in the field.

### Topics Covered:

- Gas engine cooling system installation and maintenance
- Coolant selection, analysis and troubleshooting
- Crankcase and crankshaft deflection checks
- Gas engine combustion
- Basic gas engine emissions
- Detonation and preignition
- Lean burn engine operating theory
- Gaseous fuels
- Gaseous fuel carburetors
- Waukesha Knock Index® program
- Gaseous fuel regulators
- Air/fuel ratio tracking
- Fuel system adjustment concept
- Using exhaust gas analysis to determine air fuel ratio
- Lubricating oil requirements
- Lubricating oil analysis exercise
- Air intake and exhaust system
- Crankcase breather systems
- Ignition system basics and spark plugs
- CEC ignition system installation