



TRAINING &  
TECHNICAL SERVICES

## Summary

This class is intended for equipment operators, maintenance personnel, supervisors, engineers, gas controllers, and other personnel responsible for reciprocating compression equipment. There are no pre-requisites required to attend. This class is offered at either the customer's location or at open enrollment courses throughout the U.S.

*(36 training hours).*

## Contact Us Now!

**800 - 836-7333**

5440 Alder Dr.  
Houston, Texas 77081  
Fax 713-664-6444  
TRYCECO.com  
TRYCECO@ceconet.com

Form 2019, March 2010

# Applied Principles of Engines & Compressors



**Applied Principles of Engines & Compressors is an engine fundamental class that provides a solid foundation to any employee involved in the operation and maintenance of reciprocating engines and compressors**

Although the course topics are simple and easy to understand, the class is both stimulating and challenging.

### Course topics include:

- 2-stroke cycle and 4-stroke cycle theory and operation
- Mechanical linkages
- Engine configurations (inline, "V", vertically opposed piston, and horizontals)
- Terminology (peak firing pressure, mean effective pressure, compression pressure, etc.)
- Horsepower, torque, and brake specific fuel consumption
- Engine balance
- Detonation, pre-ignition, misfires, and dead cylinders
- Fundamentals of combustion characteristics (the effects of rich/lean, advance/retard, etc.)
- Emissions formation theory and emission control technologies
- Compressor horsepower, pressure-volume curves, rod load, and unloading devices
- Compressor valves

© 2010 Compressor Engineering Corporation

® CECO is a registered trademark of Compressor Engineering Corporation.

All other company names and models listed are registered trademarks of their respective owners.