

## Training

### Turbine Care Made Simple

#### O&M- Controls and Compressor Packages

##### First Session- Gas Producer Theory

###### Turbine Engine Theory and Engine Internal Construction

- ✿ Air Intake System and Components
- ✿ Gas Producer Compressor Section and Bleed Valve Design and Function
- ✿ Diffuser Section and Related Seal and PCD Air Systems
- ✿ Combustor Section Including Fuel Nozzles, Torch Ignitor, and the Distribution of the Primary and Secondary Air Flow
- ✿ T5 Temperatures and Thermocouples
- ✿ Turbine Section, Nozzles and Wheels
- ✿ Inter Connect Shaft and Alignment

###### Lube Oil System

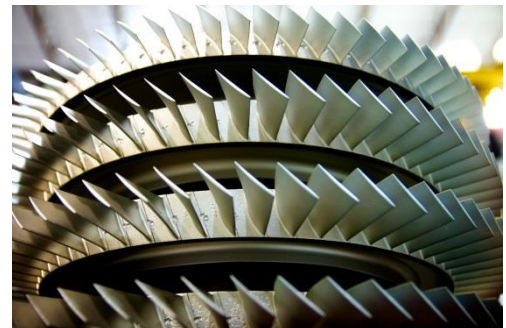
- ✿ Lubrication System Operation
- ✿ Oil Tank, Lube Oil Pump, Pressure Regulator, Controls, and Coolers
- ✿ Servo-Hydraulic System, Components, and Operation
- ✿ Maintenance Requirements



##### Second Session- Compression Packages

###### Gas Compressors, Seal Oil & Buffer, Yard Valving

- ✿ Compressor Theory
- ✿ Discuss Design Staging and Temperature
- ✿ Suction and Discharge Capsule Systems
- ✿ Seal Oil and Buffer Gas System- Operation of Components and Troubleshooting
- ✿ Yard Valving- Sequence Logic, Basic Surge, and Troubleshooting



##### Third Session- Electrical Control System

- ✿ Electrical Prints- Discuss and Identify Symbols
- ✿ Batteries, Charger, and Circuit Breakers
- ✿ Intro to Switches, Relays, Timers and Circuits
- ✿ Relay Boxes, Control Panels, and External Devices
- ✿ Understanding of Main Electrical Sequence of Events Such as Start, Stop, 15%, 60%, 90% etc.
- ✿ Review of Malfunction Shutdown Circuit

##### Fourth Session- Maintenance

- ✿ Semiannual and Annuals
- ✿ Detergent Washing
- ✿ Basic Vibration Problems
- ✿ Recap- Q/A

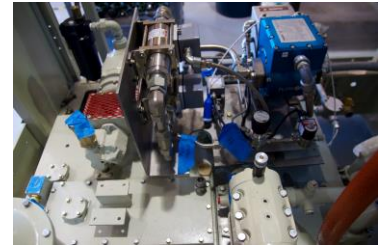
## Training



**Hands-On**



**Compressor Build**



**Skid Component Overview**



**Saturn, Taurus, Mars  
Turbines Engine Exchanges**



**On-Site Training Available**



**Prevent Costly Asset Failures**

EthosEnergy is an Independent Service Provider (ISP) for value-add rotating equipment services and solutions to the power, oil & gas, and industrial markets. Globally, these services include facility Operations & Maintenance; design, manufacture and application of engineered components, upgrades and re-rates; repair, overhaul and optimisation of gas turbines and steam turbines, generators, compressors.

EthosEnergy's Centre of Excellence facility for Light Turbines in Houston has over 20 years of experience and is the world's leading alternative supplier of services for Solar sub-12MW gas turbines.

**EthosEnergy (Houston Production Facility)**

6225 West Sam Houston Parkway North  
Houston, TX 77041  
+1 (713)-849-8800

**[Call Us Today for the Current Training Schedule](#)**