

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

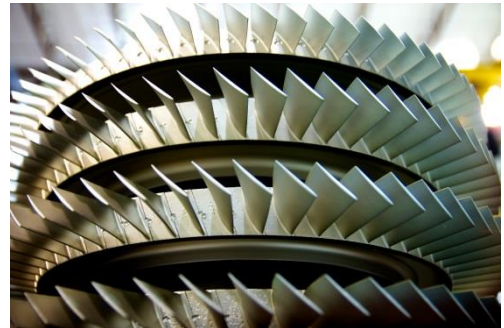
- ✿ Lubrication System Operation
- ✿ Oil Tank, Lube Oil Pump, Pressure Regulator, Controls, and Coolers
- ✿ Servo-Hydraulic System, Components, and Operation
- ✿ Maintenance Requirements



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

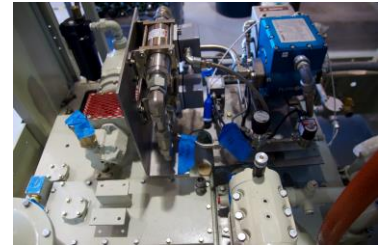
Training



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)

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