Operational Practices - Turbines and Engines

November 22 - 24, 2017
3 - Day Technical Program
Turbines and Engines:
A comprehensive course on operation and maintenance of turbines and engines of various designs and applications. The course is intended to familiarize engineers with the guidelines and best practices employed in chemical and process industries for operation, maintenance and repair of such machines.
This course is designed to benefit all levels of Technical Personnel in the oil and gas industry as well as in chemical and process industries but will greatly benefit:
- Chemical and Process Engineers
- Operation and Technical Service professionals
- Technical Consultants and Sales Engineers

Main Features:
- Background theory and discussion on applied O&M aspects of gas turbines, steam turbines, diesel engines and gas engines
- Detailed overview of all relevant circuits and auxiliary systems
- Brief introduction to the requirements / guidelines of relevant API codes
- FFC Case Studies
- Discussion on Case Studies from Participants

Learning Goals:
- Understand technical features of turbines and engines
- Knowledge of the best operational practices
- Learning problem analysis and troubleshooting techniques
- Know-how regarding the maintenance and repair methodologies

Training Method:
- Presentation
- Basic Calculations
- Group Discussions and Workshops
- Two specialist instructors having years of experience in respective operations and maintenance functions

Course Structure:
A day wise breakup of the program is included for a total duration of 3 days.

Our Inherent Expertise:
FFC has now been involved with imparting training to the local industry since more than a decade at our plant. Our course faculty are our brightest engineers selected from our running plants to deliver relevant and practical knowledge to our colleagues from other industries.
Benefits & Target Audience

Benefits:

This program will prove invaluable for process and operations engineers. The course will equip the participants with skills in operation and troubleshooting of above mentioned machines. It will also help in optimizing machines operations at industrial units, reducing energy consumption. The know-how will in turn help in timely planning of maintenance, identify extreme service conditions and avoid premature failures; thus improving reliability of the machines and the whole industrial unit.

Target Audience:

This course is intended for:

⇒ Chemical and Process Engineers
⇒ Operation and Technical Service professionals
⇒ Technical Consultants and Sales Engineers

S. M. Ali Ala Zaidi

Senior Executive - Production

S. M. Ali Ala Zaidi holds a practical experience of 13 years in the field of plant operation. He joined FFC as a trainee engineer in year 2003 after graduation in B.E. Chemical engineering from NFC IET, Multan. He has served at Urea, Ammonia and Utilities Units and has operational and troubleshooting experience of gas turbines, steam turbines, centrifugal and reciprocating compressors.

Ali has also provided the services in commissioning and start-up of SAFCO-V plant in Al-Jubail, Saudi Arabia.

He has delivered training courses to GPIC, Bahrain and KAFCO, Bangladesh plants personnel on Urea plants at FFC Training centre. Ali has also delivered course to OMV personnel on gas turbine operation and Bosicor Refinery personnel on Reciprocating compressors.
Day One:
- Training Participants Introduction
- Gas Turbine Operation
- Overview of FFC Power Generation System
- Working Principle of Gas Turbine
- Operation / Monitoring of Gas Turbine
- Start-up / Shutdown of Gas Turbine
- Circuits of Gas Turbine
- FFC Case Studies

Day Two:
- Steam Turbine Operation
- Overview of FFC Steam Turbines
- Working Principle of Steam Turbine
- Operation / Monitoring of Steam Turbine
- Start-up / Shutdown of Steam Turbine
- Circuits of Steam Turbine
- FFC Case Studies

Day Three:
- Gas & Diesel Engine Operation
- Overview of FFC Gas / Diesel Engines
- Working Principle of Gas and Diesel Engines
- Operation / Monitoring of Gas and Diesel Engines
- Start-up / Shutdown of Gas and Diesel Engines
- Circuits of Gas and Diesel Engines
- FFC Case Studies
- Discussion on Case Studies from Participants

Shahid Farhan
Deputy Executive - Production

Shahid Farhan holds Bachelor Degree in Chemical Engineering from “University of Engineering and Technology Lahore, Pakistan”. He is working in production department of Fauji Fertilizer Company Ltd. since 2010. He has operational and troubleshooting experience of gas engines, steam turbines, centrifugal and reciprocating compressors.
Shahid was involved in Ammonia plant HAZOP study and configuring DCS features during shifting of plant control from conventional to DCS.
He was involved in commissioning and operation of gas engines, as a part of natural gas compression project of FFC.
Course Dates:
The three-day training course will be held from 22 - 24 November 2017.

Venue:
The training will be conducted at FFC’s Corporate Head Office, SONA Tower situated opposite Pearl Continental (PC) Hotel on The Mall Road in Rawalpindi Cantonment.

Training Fee:
The Fee for our three-day training program is Rs. 40,000/- excluding tax.

Lunch & Refreshments:
Refreshment breaks during course along with lunch at our executive cafeteria during the 3 course days are included in training fee.

Registration:
Please fill in our application form attached for registration in the course and email at trainings_ts@ffc.com.pk. Confirmation will be sent within one week of registration.

Payment:
Payment is due upon receipt of the acceptance letter along with the invoice. Please ensure that the payment reaches the office before the start of the program. Our preferred mode of payment is by cheque / banker’s draft payable to

Fauji Fertilizer Company Limited.
Please send the cheque / draft to:
Technical Services (HO),
Fauji Fertilizer Company Ltd,
Sona Tower, 156 - The Mall, Rawalpindi,
Tel: +92-51-8454840

Cancellation/Substitutes and Refund:
In case a registered participant is unable to attend, please inform at least 2 days before the course for any substitute participation. Cancellation is free up to 7 days before course start (except for an application processing fee of Rs. 5,000). A refund will not be possible after that or in case of no show.
Fauji Fertilizer Company Limited (FFC), established in 1979 is the largest Urea manufacturer in Pakistan. FFC operates three state of the art ammonia-urea fertilizer complexes which have earned various international safety and production awards based on excellent operational and maintenance practices. We are certified to ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007. FFC has a well-established training portfolio spanning more than a decade and have imparted training to various industrial sectors of Pakistan including refineries, Oil & gas, fertilizer, chemical, power etc.
Serving the Nation for over 38 years

HELPING COMMUNITY AND BUILDING PAKISTAN

Leaders in Fertilizer Sector
Diversifying in Wind Energy, Banking and Food Processing
One of the Highest Tax Payers
Awarded for Transparency and Corporate Governance in South Asia
1st Position in PSX Top 25 Companies Award for Consecutive 6th Year
Quality and Environment Conscious Company

FFC FAUJI FERTILIZER COMPANY LIMITED
www.ffc.com.pk