



Instrumentation - Machinery Monitoring System & Control Valves

May 07 - 09, 2018

(3 - Day Technical Program)



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Benefits:

The training workshop is designed to share our knowledge with our colleagues from the local industry.

Program comprises of 2 parts; highly useful for all plant personnel dealing with the operation and maintenance of control valves as well as high speed machinery vibrations. The course is designed for both engineers as well as experienced technicians.

Our Approach is Interactive & Personal:

Prepared directly by instrument industry engineer, training incorporates a hands-on approach, with interactive lectures, case studies, visual demos, group discussions more of a forum of technical executives; an environment quite different from typical training institutes.

All participants are invited to utilize the rich experience of the instructor to its maximum by discussing their own plant cases for general benefit of the class.

Workshop 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 workshop faculty are our brightest engineers selected from our running plants to deliver relevant and practical knowledge to our colleagues from other industries.

This training workshop is now being conducted at our Head Office in Rawalpindi by highly experienced technical experts.

Target Audience:

This workshop is intended for:

- Instrument Engineers
- Instrument Technicians
- Maintenance Engineers
- Operation Engineers

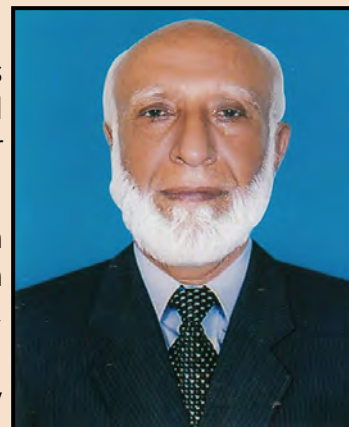
Instructor Profile

Mr. Aftab Ahmed Mazari holds vast practical experience of 43 years as an Instrument Engineer. He started his career from Pakistan Steel and worked with them for 10 years. Then joined Fauji Fertilizer Company and retired with an enriched experience of 30 years.

Mr. Mazari also holds wide experience of Instrument consultation and training and has delivered courses to local as well foreign clients including SABIC KSA, and local multinationals like ENI, Lotte, BHP, Unilever, OMV etc.

He has developed various training aids for instrument engineers/ technicians which include simulators (training rigs), Vibration Simulator, Speed Simulator, Vibration Switch Simulator etc., and also cut-away models of Control Valves, PSVs, SOV, Pressure Regulator, Temperature Indicator, Trip Relay etc.

Mr. Mazari has also authored numerous books for Instrument / Operations crew which are referred to by instrument & operation personnel in various plants in Pakistan.





Day One:

* Machinery Monitoring System

- Machine Vibration
- Severity, Units
- Sensor Types
 - Proximity Method
 - Velocimeter
 - Accelerometer
- Frequency
- Displacement
- Amplitude
- Rod Drop
- Barring
- Static Charge

Day Two:

* Machinery Monitoring System

- Speed Sensors
- Installation / Trouble Shooting
- Demonstration at Radial Vibration / Axial Displacement and Speed Sensor Simulator

* Control Valve

- Definition & Function
- Major Parts, Terminology
- Actuators
 - Pneumatic Operated
 - Hydraulic Operated
 - Electric Operated
 - Manual Operated
 - Direct / Reverse Action
 - Sliding / Rotary

- Piston Diaphragm
- Valve Bodies

Day Three:

* Control Valves

- Bonnet (Type, Material, Packing)
- Trim
- Positioner
- Accessories
 - Pressure Regulator
 - Volume Booster
 - Quick Exhaust Relay
 - Solenoids, Trip Relay
 - I/P Converter, Position Transmitter
- Maintenance
 - Type, Record Keeping,
 - Inventory Management
 - Store of Spares
- Control Valves Overhauling
 - Replacing Soft Parts
 - Bench Set Adjustment
 - Leakage Checking
- Trouble shooting
 - Hunting
 - Slow Response
 - Gland Packing Leakage
 - Diaphragm Leakage
 - Tubing Problems
 - Calibration
- Demonstration at cutaway models

Registration & Venue

Workshop Dates :

The three-day training workshop will be held from 07 - 09 May 2018.

Venue:

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

Training Fee:

The fee for our three (03) - day training program is **Rs. 30,000/-** (excluding tax) per participant.

Discounts:

Early bird discount of 10% available for all nominations received before 20th April, 2018.

Group discount of additional 10% for 3 or more nominations from an organization.

Lunch & Refreshments:

Refreshment breaks during workshop along with lunch at our cafeteria during the 3 workshop days are included in cost.

Registration:

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

Payment Mode:

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 & Refund:

In case a registered participant is unable to attend, please inform at least 2 days before the workshop for any substitute participation. Cancellation is free up to 7 days before workshop start date (except for an application processing fee of **Rs. 5,000**). A refund will not be possible after that or in case of no show.

For Queries Contact:

Mr. Ameer Hamza

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