

Course Title

Instrumented Protection & Maintenance

Credit Hours

25 H

Venue

Dubai

Date

25th – 29th August , 2024

Objectives

- ✓ This course mainly aims to provide participants with the scientific and practical foundations for maintaining instruments in a way that is compatible with the practical reality and the conditions, size and objectives .
- ✓ Refining and developing the skills of planning, organizing, scheduling, executing and controlling the maintenance of instruments in a way that guarantees the workflow and maintains the investments made.
- ✓ Provide the participant with the ability to perform maintenance work for instruments efficiently using the scientific method in setting plans for carrying out various maintenance works, defining their priorities, coordinating with the plans and needs of other sectors of the organization, and following up and evaluating maintenance work for instruments and equipment.
- ✓ Giving the participant the ability to set time plans for the various maintenance works that take into account the requirements of the various maintenance works, as well as the requirements of the operating plans, as well as developing operational plans for the maintenance of instruments.
- ✓ Measuring the efficiency of carrying out maintenance work through performance indicators that combine a comprehensive view of performance and the analytical ability of this performance to identify the most important causes of potential deficiencies and their priorities.

The Delegates

- ✓ This course is designed for anyone who wishes to obtain a basic understanding of hydraulic modeling for distribution systems .
- ✓ Engineers & Engineering Project Managers .
- ✓ Water modeling specialists .
- ✓ Water Treatment and Distribution system operators .
- ✓ Utility managers and supervisors .

Contents

- **Introduction to Instrumentation Maintenance**
 - Calibration
 - Definitions, Purpose of calibration
- **Type of Calibration**
 - Wet / Dry
 - On line / off line
 - Laboratory / on site
- **Terms :**
 - Accuracy
 - Repeatability
 - Linearity
 - Uncertainty
 - Traceability
 - Records

- ZERO adjustments
- **Control Valves :**
 - Definitions
 - Gauge and absolutes
 - Manometer
 - Pneumatic or mechanical
 - Pressure sensor & transmitter
 - Electrical pressure sensor & transmitter
 - Pressure engineering units
- **Calibration of Control valves :**
 - Simulation of signals
 - Overhaul / Service
- **Calibration of Level :**
 - Simulation of signals
 - Gas analysis
- **Measurement applications :**
 - Introduction to Pressure Measurements
 - Simulation of signals
- **Introduction to Temperature & Analytical Measurements :**
 - Simulation of signals
- **Maintain Instrumented Protection Systems (IPS) :**
 - IPS main components
 - IPS theory of operation
- **Maintain Current to Pneumatic Converters :**
 - Maintain Process Control Systems
 - Maintain and Test Emergency Shutdown Valves
 - Direct Current Meters
 - Voltmeter, ammeter .
 - Calibration of DC instruments
 - Alternating current meters
 - Recording instruments
 - Moving coil used with rectification
 - Iron-vane meter
 - Thermocouple meter .

Discount	Language	Fees
10% in case of Three P. (or more)	English & Arabic	USD : 5000 \$
Timetable	How to Register ?	Other Dates
09:00 Am : 11:00 Am (1 st Section) 11:00 Am : 11:15 Am (Break 1) 11:15 Am : 12:45 Pm (2 nd Section) 12:45 Pm : 01:00 Pm (Break 2) 01:00 Pm : 02:00 Pm (3 rd Section)	www.titlehr.com Info@titlehr.com Tell 00971559687070	24 th – 28 th November , 2024