CAREER MANAGEMENT CONSULTANCY &TRAINING
كرير للإستشارات الإدارية والتدريب

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IE240:
Honeywell DCS Refreshment

Training Description:

Since its inception, the concept of Distributed Control Systems has swept alternative control technologies from the field. The substantial growth in grass-roots construction of plants in the traditional heavy process industries, such as power generation, refining, oil and gas, water and petrochemicals is driving significant growth in the utilization of Distributed Control Systems (DCS). The broad architecture of a solution involves either a direct connection to physical equipment, such as switches, pumps and valves or connection via a fieldbus communication system.

With the advent of high-speed data highways and locally collected plant information, Distributed Control Systems are being used to reduce cabling costs, as well as the implementation of advanced control strategies. The course will cover the practical applications of Distributed Control Systems. The course is based on a selection of subjects that either have had a strong impact on distributed systems today, or explore novel ideas which may be important in the future.

This intensive training course is designed to provide participants with a detailed and up-to-date overview of DCS System (Honeywell), distributed control system process and experion operation. It covers the EXPERION PKS operation; the transition to a new control system; the usage of standard control displays; the EXPERION PKS's HMI web graphic displays to control and monitor the process; the process trend displays for better control; and the process and system alarm indications for quicker response to process and system upsets.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Apply and gain a comprehensive knowledge on DCS System (Honeywell), distributed control system process and experion operation
- ✓ Operate EXPERION PKS with confidence
- ✓ Illustrate transition smoothly to a new control system
- ✓ Use the standard control displays effectively as well as EXPERION PKS's HMI web graphic displays to control and monitor the process
- ✓ Interpret process trend displays for better control
- ✓ Recognize the process and system alarm indications for quicker response to process and system upsets

Training Designed for:

This course is intended for plant engineers and operators and instrument technicians.

Training Program:

DAY ONE:

- ❖ Pre-Test
- ❖ Introduction
- ❖ Log On & Off the Experion PKS Station
  - Station and Operator Based Log On
- ❖ Using Windows Navigation Tools

- Managing Windows Using the SafeView Control Environment
- Using Tabbed Display Functionality with SafeView Environment
- Recap

DAY TWO:

- Identifying Advance Parameter Security
- Using Standard Operating Displays
  - Experion PKS Faceplates, Group Displays and Point Detail Displays
- Using Point Detail Display & Faceplates to Make Process Changes
- Identifying Control Conventions
  - Automatic
  - Manual
  - Cascade
  - PV Tracking
  - Program
- Recap

DAY THREE:

- Navigating through Standard Operating Displays
- Identifying Color Conventions
- Using Alarm Displays & HMI Web Displays to Identify & Respond to Abnormal Conditions
- Identifying Alarm Help Integration
- Recap

DAY FOUR:

- Using the Dynamic Alarm Suppression to Reduce the Alarm Flood & Increase the Operators Efficiency
- Using Alarm Tracker to Establish Situational Awareness
- Using the Enterprise Model Concepts to Manage Plant Assets
- Using Procedural Operations
  - Interactive Instructions to Combine Manual Operations with Automatic Operations in Consistent Manner

DAY FIVE:

- Identifying & Using of Tools Available on the EXPERION PKS System to Analyse Process Upsets
  - Using Trends and Group Trend Displays
- Using the Many Reporting & Event Retrieval Tools to Customize Report & Displays
- Accessing the Built in Online Help Documents
- Course Conclusion
- Post-Test and Evaluation

Training Requirement:

"Hand's on practical sessions, equipment and software will be applied during the course if required and as per the client's request."

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Please note that the above topics can be amended as per client's learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

For training registrations or in-house enquiries, please contact:
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Training & Career Development Department