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SPEEDTRONIC G.E. MARK VIe <HMI> TRAINING PROGRAM FOR MAINTENANCE PERSONNEL

13th to 17th October, Kuala Lumpur, Malaysia

25 SIMULATION LAB EXERCISES

Expert Course Faculty Leader

Lies Tahri

L. Tahri has over 32 years industrial/training experience in commissioning and project management, instrumentation and control engineering, development and delivery of engineering courses, business development and sales to a variety of customers mainly associated with oil/gas industries and power engineering in the UK and overseas

*Subject to terms and conditions
SPEEDTRONIC G.E. MARK Vie <HMI> TRAINING PROGRAM FOR MAINTENANCE PERSONNEL

About This Training Course

This course offers instruction on the hardware and software of the controller equipment. The course material and exercises provide training on the software tools that are used to troubleshoot alarms, hardware faults, to edit sequencing, configure the Inputs and outputs (both hardwired and networked), and calibrate Servo-Actuated Valve, LVDT’s and other devices. Additional class work includes information on the Cimplicity operator interface (HMI). Lectures and hands-on exercises develop a thorough understanding of ToolboxST and other software tools.

5 Days Course Outline

**Speedtronic Mark Vie HMI Maintenance**

**DAY 1**
- Introduction-Safety
- Introduction to Student Documentation
- System overview and Architecture
  1. Panel/Hardware Identification, Description, Layout
  2. Controllers
  3. I/O Cards
  4. Typical Panel Layout
- Lab#1 MarkVie System Architecture
- Review of GEH-6721 Vol. II
- TMR/Duplex Panel Layout
- Lab#2 MarkVie System Architecture
- Power Distribution Modules
- ToolboxST2.x Basics
- Password Structure

Demonstration of Basics

Monitoring the MKVIe
  1. Inputs/Outputs
  2. Local vs. Remote I/O
  3. Forcing
  4. Uploading
  5. I/O Report

Lab#3 Identify and Monitor I/O Points

**Day 2**

Monitoring the MKVIe
  1. Software
  2. block structure
  3. help files
  4. Linked Blocks
- Lab#4 Identify and Monitor Internal Software
- Using the MKVIe Finder
- Lab#5 Finder
- Using the MKVIe Trender
- Lab#6 Trender

**DAY 2**
- Using Watch Windows
- Lab#7 Troubleshooting Functions
- Lab#8 Tune-up
- Constants and Variables
  1. Difference
  2. Changing and saving

**DAY 3**

- Editing application software
- Making software changes permanent
  - Downloading to the Controller
- Lab# 11 Code Generation
- Configuring-I/O-points
- Lab# 12 Digital I/O
- Lab# 13 Software and Hardware I/O Editing
- Lab# 14 Software and Analog I/O Editing
- Review of Typical TMR software –

**DAY 4**

- I/O PAC and Terminal board replacement
- Viewing and troubleshooting I/O diagnostic alarms
- Lab# 9 Hardware Diagnostics
- Lab# 14 I/O Pack Initialization
- Communication with Cimplicity
  - EGD Communication
  - Lab #20 Cimplicity Communication
  - Replacing the Controller card
  - Lab# 15 UCCx Controller Initialization
  - Using the Low Level Monitor (LLM)
    1. Telnet to the Controller
    2. Using LLM to access I/O PAC Information
  - Adding and Modifying Alarms, SOEs and Events
  - Lab# 18 Add & Modify Alarms and SOEs
  - Peer to Peer communications with MarkVie
    1. Communicating with Legacy Devices
    2. Unit Data Highway (UDH)
  - Lab #19 MarkVie Peer to Peer Communications

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DAY 5
- Configuring Trip and DDRs History
- Viewing Trip History
- Lab #24 Configure Trip History
- Calibration using the MarkVie
- Lab #25 Lab Servo Calibration

Training Done By Lies Tahri to date

O’BRIEN COGEN, USA Process Control and DCS (WDPF)
ZADCO, ABU-DHABI DCS Overview and Configuration
ADCO, ABU-DHABI Instrumentation and Process Control
AGOCO, LIBYA Instrumentation and Control
AZZAWIYA, LIBYA Instrumentation and Control
RASCO, LIBYA Instrumentation and Control
SIRTE, LIBYA DCS and Control Simulation
O.N.E., MOROCCO Gas Turbine Operation (MKS) in French
NAT. POWER, UK DCS — VAMET System
KEADBY POWER, UK DCS Operation/Maintenance-WDPF SY
GASCO, ABU-DHABI Advanced Electronics
SABAH, MALAYSIA MKS Speedtronic Control System
ADCO, ABU-DHABI MKS OPERATIONS /Maintenance
POWERGEN, KENT, UK MKS Operations and VALMET DCS
L.L.S., LABUAN, MALAYSIA MKS <I> Speedtronic Operations & Maint.
AL-GHUBRAH, OMAN DCS Operation/Maintenance (WDPF)
ADCO/ASAB, ABU-DHABI MKS Operation/Maintenance
Zhenhai, CHINA DCS (INFI 90) Oper./Maint.
Mobil, North Sea (UK) MKII Maintenance
ADGAS, UAE MKII Operation & Maintenance
Salt Union, UK DCS (Valmet) Oper. & Maintenance
ADCO-ABU-DHABI MKV Maintenance
SHELL, UK MKV Operation & Maintenance
ORYX, UK MKV Operation & Maintenance
PSU, Sch., USA MKV (HMI) Ops & Maint.

SCECO, Qassim, KSA MKV Operation & Maintenance
GTFT, Hassi-Messaoud, Algeria MKV Operation & Maint. (Frame 5002)
ADCO (Gas Plant), Asab, UAE MKV (HMI) Operations & Maintenance
SONATRACH/TOTAL, GTFT, Algeria MK V <I> Operations & Maintenance
OSBORNE Eng., UK MKII Speedtronic Controls (Maint.)
AMIDAL, Algeria MKII Controls and GT Maint.(Frame 5P)
ADCO, UAE MKV <HMI> Maintenance (Frame 6B)
GE Belfort, France MK V <HMI> Maintenance (Frame 9E)
SOGEK-Arzew, Algeria MK V <HMI> Maintenance+DLN 9EA
GE-Belfort, France MKV <HMI> Frame 9E Maintenance
STEG-La Goulette, Tunisia MKV <HMI> Frame 9E Maintenance
ADNOC, Abu Dhabi, UAE MKV <HMI> Frame 6B Maintenance
Connas Quay, Chester, UK MKV <HMI> Frame 9FA Maintenance
SEWA, Belfort France MKVI Frame 9FA
SEC Najran, KSA MKVI Frame 7EA
Sonatrach (Kenenda,Seifiane) Algeria MKVI Frame 32J & 52D
Shotton Power, UK MKV Frame 9FA
BP. Etap, UK MKV Frame 6B
Sonelgaz, Algeria MKVI Frame 6B + DLN
SEC, PP9 Riyadh, KSA MKVI Frame 7EA
VBR Turbine Partners, Holland MKV <HMI> LM2500
GEII, Belfort France MKVI Frame 9EA
SEC, PP8 Riyadh KSA MKVI Frame 7FA
SEC, Quurrayah MKVI Maintenance Frame 7FA
SEC, Faras, Hofuf, KSA MKVIe Operations and Maint. (Frame 7FA)
Sonatrach, Algeria MKVI Ops & Maintenance on Fr. 32J, Fr. 52C
Sonelgaz Algeria MKVIe Ops and Maint. On Fr. 6B
E-ON, UK MKV on LM6000
Sonelgaz, Algeria MKVIe Ops and Maint.
Qatalum, Qatar MKVIe Frame 9FA
Sonatrach, Stah, Algeria MKVIe Ops and Maint (Frame 5002)
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REGISTRATION FORM

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You may also be interested in

- Keeping Electrical Switchgear Safe
- Introduction to Power Systems
- Power Generation Operation Protection & Excitation Control
- Fundamentals of Power Generation

On Site Training

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