CENTUM VP Engineering & Maintenance (CVP/EM)

Objectivity	This course enables participants to learn to perform generation of CENTUM VP Regulatory Control Functions, Sequence Control Functions, Human Interface Station Windows by using the System Viewer in the HIS with Engineering packages and understanding how to available maintenance the hardware and software of the Centum VP system by the end of this course, the participants will be able to perform front-end maintenance of the Centum VP system.
Training period	5 Days
Time	9:00 a.m. – 4:30 p.m.
Avenue	Yokogawa (Thailand) Ltd. Bangkok Office (Rama 9) and Rayong Branch Office (Maptaphut).
Instructor	IAEC trainers, Engineer, Yokogawa (Thailand) Ltd.
Participant	For engineers involve in software generation or modification on the CENTUM VP system
Requirement	Participants should have attended CENTUM VP Operation Course.
Minimum no. of pax	4 - 12 Participants

Course outline detail

Day	Morning (09:00a.m. – 12:00 p.m.)	Afternoon (01:00 p.m. – 4:30 p.m.)
1st	**- CENTUM VP system overview and configuration** **- Windows and Network setup** - FCS Type for Centum VP - Networking: Vnet/IP **- Project Creation and Attribution** **- Project Common Item Definition** **- Download to FCS and HIS Configuration**	- Laboratory work: 　**- Project Common Item Definition** 　**- Download Project Database**
2nd	**- FCS Configuration** 　- Control Drawing Builder and Philosophy 　- Control Drawing Builder Settings 　- Function Block Creation **- Regulatory Control Function Definition** 　- Structure of Regulatory Control Blocks 　- Functions of the Regulatory Control Blocks 　- Types of the Regulatory Control Blocks **- Example of Regulatory Loop Control in Process**	- Laboratory work : 　**- FCS Configuration** 　**- Regulatory Control Creation** 　　- Cascade Control 　　- Cascade Control with Selector 　　- Cascade Control with Signal Distribution Block 　　- Ratio Control
3rd	**- Sequence Control Function** **- Types of Sequence Control** 　- Sequence Table Block 　- Logic Chart **- Software Input and Output** 　- Internal Switches 　- Message Output **- Function Blocks and I/O Data for Sequence Control** **- Example of Sequence Control**	- Laboratory work: 　**- Sequence Control Creation** 　　- Sequence Table 　　- Logic Chart

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Course outline detail

Day	Morning (09:00a.m. – 12:00 p.m.)	Afternoon (01:00 p.m. – 4:30 p.m.)

4th	**- HIS Configuration**
	  - Function Keys
	  - Scheduler
	- Panel Set
	- Sequence Message Request Builder
	- Trend Acquisition Pen Assignment
	- Change Reconfirmation Button Style
	- Change Block Mode
		- Graphic Builder
		- HIS Windows
		  - Control Group Window
		  - Graphic Window
		
		- Laboratory work:
		  - HIS Configuration
		  - Graphic Builder

5th	**- Off-line and On-line download Project Database to FCS**
	- Backup and Restore Project Procedure
	  - Backup Project Database
	  - Backup Project by HIS Tool
	  - Backup CENTUM VP Folder
	  - Backup Report Package File Folder
	  - Backup Trend File Folder
	  - Backup Long Term Data Folder
	  - Backup Keycode
	  - Backup All driver
	- Mandatory Replacement for FCS and Accessories
	  - CPU Card and IO Card
	  - Vnet,Vnet/IP Card
	  - Battery Unit, Air Filter and Fan Unit
	- Troubleshooting
	  - HIS Communication and Functions
	  - IOM and Overall Window
	  - Network Status Display
	  - Network, Ethernet and Control Bus
	  - FCS Tool, HIS Tool and Network Tool
		- Laboratory work:
		  - Download project database
		  - Backup Project Database and Others
		  - Troubleshooting
		    - IOM Download
		    - Ethernet and Control Bus Check Error
		    - HIS Tool and Network Tool

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