CENTUM VP Engineering (CVP/E)

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.
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, Configuration and Networking**
	- Project Creation and Attribution
	- Project Common Item Definition
	  - Station Configuration Viewer
	  - Engineering Unit Symbol Builder
	  - Switch Position Label Builder
	  - Operation Mark Builder
	  - Alarm Priority, Status Character String and Process Table
	  - Security Builder
		- Laboratory work:
		- Project Creation and Attribution
		- Project Common Item Definition

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
	- Software Switch Configuration
	- 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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4th	**- HIS Properties** **- HIS Constant** **- HIS Configuration** - Function Keys - Scheduler - Panel Set - Sequence Message Request Builder - Trend Acquisition Pen Assignment - Change Reconfirmation Button Style - Change Block Mode	**- Laboratory work:** **- HIS Properties** **- HIS Constant** **- HIS Configuration**
5th	**- HIS Windows Creation** - Control Group Window - Overview Window - Graphic Window **- Graphic Builder**	**- Laboratory work:** **- HIS Windows Creation** **- Graphic Builder**