# CENTUM VP Operation & Engineering (CVP/OE)

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|---|---|
| **Objectivity** | This Operation course is designed to give participants have knowledge and understanding how to available operate. and monitor process variable , process status , system status and other data including basic system administration maintenance which operators should know it by via the operation and monitoring windows of the CENTUM VP system. And Engineering course enables participants to learn to perform generation of CENTUM VP Regulatory Control Functions, Sequence , Control Functions, HIS 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 preferably have some basic knowledge on process measurement and control. |
| **Minimum no. of pax** | 4 - 12 Participants |

## Course outline detail

| Day | Morning<br>(09:00a.m. – 12:00 p.m.) | Afternoon<br>(01:00 p.m. – 4:30 p.m. ) |
|---|---|---|
| 1st | **Welcome and Course Introduction**<br>- System Architecture<br>- Starting the CENTUM VP Operation and Monitoring Train<br>- System Message Banner<br>- Process Alarm (CAMS for HIS) | - System Alarm (CAMS for HIS)<br>- Operation Guide View<br>- Message Monitor<br>- Hardcopy<br>- User In |
| 2nd | **- Browser Bar Menu**<br>  - Overview Toolbox<br>  - Preset Menu Toolbox<br>  - Tool Button Toolbox<br>  - Name Input Toolbox<br>  - Window History Toolbox<br>**- Graphic View**<br>**- Instrument Faceplate**<br>**- Tuning View**<br>**- Trend View** | - HIS Setup<br>- Process Report<br>- Historical Report<br>**- Laboratory work :**<br>  - Labs of operation and Monitoring |
| 3rd | **- Project Creation and Attribution**<br>  - Project Common Item Definition<br>  - FCS Configuration<br>**- I/O module definition**<br>**- Control Drawing Builder Settings**<br>**- Regulatory Control Function Definition**<br>  - Feedback Control , Cascade Control, Ratio Control | **Laboratory work:**<br>**- Project Creation**<br>**- Project Common Item Definition**<br>**- FCS Configuration**<br>  - I/O module Creation<br>  - Software I/O Switch Creation<br>**- Control Drawing Builder**<br>  - Regulatory Control Creation<br>  - Sequence Control Creation |

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|---|---|---|
| 4th | **- Sequence Control Function**<br>**- Types of Sequence Control**<br>  - Sequence Table Block<br>  - Logic Chart<br>**- Software Input and Output**<br>  - Internal Switches<br>  - Message Output<br>**- Function Blocks and I/O Data for Sequence Control**<br>**- Example of Sequence Control** | **Laboratory work:**<br>- Sequence Control Creation<br>- Sequence Table<br>- Logic Chart |
| 5th | **- HIS Configuration**<br> **- HIS Constant**<br> **- Scheduler , Panel Set, Sequence Message**<br> **- Trend Acquisition Pen Assignment**<br> **- HIS Windows Creation**<br>  - Control Group Window<br>  - Overview Window<br>  - Graphic Window | **Laboratory work:**<br>- **HIS Windows Creation**<br>  - Trend Group Window<br>  - Control Group Window<br>  - Graphic Builder |

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