

# CENTUM VP Maintenance (CVP/M)

<b>Objectivity</b>	This course is designed to give participants knowledge 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.
<b>Training period</b>	2 Days
<b>Time</b>	9:00 a.m. – 4:30 p.m.
<b>Avenue</b>	Yokogawa (Thailand) Ltd. Bangkok Office (Rama 9) and Rayong Branch Office (Maptaphut).
<b>Instructor</b>	IAEC trainers, Engineer, Yokogawa (Thailand) Ltd.
<b>Participant</b>	For CENTUM VP engineers and technicians who need to perform maintenance on the CENTUM VP system.
<b>Requirement</b>	Participants should have attended CENTUM VP Operation and Engineering Course.
<b>Minimum no. of pax</b>	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	<ul style="list-style-type: none"> <li>- <b>CENTUM VP System Overview, Configuration and Networking</b></li> <li>- FCS Type: KFCS, FFCS, LFCS, PFCS, FFCS-L</li> <li>- Node Type: Local and Remote Node</li> <li>- IO Type: FIO and RIO</li> <li>- Networking: Vnet and Vnet/IP</li> <li>- Off-line and On-line Project Database Download</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Laboratory work :</b></li> <li>- <b>Installation/Uninstallation Hardware</b></li> <li>- <b>Software Installation</b></li> <li>- Window Setup and Configuration</li> <li>- Network Setup (Control Bus and Ethernet)</li> <li>- Uninstallation Software</li> <li>- Installation Software</li> <li>- Download Project Database</li> </ul>
2nd	<ul style="list-style-type: none"> <li>- <b>Backup and Restore Project Procedure</b></li> <li>- Backup Project Database</li> <li>- Backup Project by HIS Tool</li> <li>- Backup CENTUM VP Folder</li> <li>- Backup Report Package File Folder</li> <li>- Backup Trend File Folder</li> <li>- Backup Long Term Data Folder</li> <li>- Backup Registry</li> <li>- Backup Keycode for each station</li> <li>- Backup All driver</li> <li>- <b>Mandatory Replacement for FCS and Accessories</b></li> <li>- CPU Card and IO Card</li> <li>- Vnet,Vnet/IP Card and Vnet Coupler</li> <li>- Battery Unit, Lamps, Air Filter and Fan Unit</li> <li>- <b>Troubleshooting</b></li> <li>- HIS Communication and Functions</li> <li>- IOM and Overall Window</li> <li>- Network Status Display Box</li> <li>- Network, Ethernet and Control Bus</li> <li>- FCS Tool, HIS Tool, and Network Tool</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Laboratory work :</b></li> <li>- <b>Backup Project Database and Others</b></li> <li>- <b>Troubleshooting</b></li> <li>- IOM Download</li> <li>- Ethernet and Control Bus Check Error</li> <li>- HIS Tool and Network Tool</li> </ul>