ProSafe-RS Engineering & Maintenance (PSRS)

Objectivity	Enable ProSafe-RS system users to operate, maintain and modify the system with respect to the user interface Workbench. The course will outline the system's safety features and provide the opportunity through.
Training period	4 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	Process engineers, process control engineers, maintenance and technical support personnel.
Requirement	Participants should have attended CENTUM CS 3000 Operation and Engineering course Fundamental knowledge of computers and a working knowledge of MS-Windows, electronics and Boolean logic.
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	- **Welcome and Course Introduction**
	  - ProSafe-RS Documentation
	  - ProSafe-RS Hardware
	  - CPU, I/O Modules, Power Supply, Setting Domain and Station number.
	- **Introduction to ProSafe-RS Workbench**
	- **I/O Parameter Builder Setting**
		- **Laboratory work:**
		  - ProSafe-RS Hardware Familiarization-Setup
		  - Safety Node I/O Modules according to the instruction
		  - Working with the Workbench

2nd	- **Introduction to the ProSafe-RS Languages (IEC-61131-3)**
	- **Function Block Logic**
	- **Different between Function and Function Block**
	- **Creating User Define Function Block**
	- **ANGI block, ANN block etc.**
	- **Ladder Logic**
		- **Laboratory work:**
		  - **Creating a project with Function Block Logic**
		  - **Presentation of each team**
		  - **Ladder Logic Configuration**
		  - **Presentation of each team**

3rd	- **Integration with/communication to other systems** - **Project Password.** - **SCS Security Level** - **Test Function with CENTUM VP** - **Type of Download** - **I/O Lock Window**	- **Laboratory work:** - **CENTUM VP Integration** - **Setting up the Sequence of Event Viewer** - **Test function**

4th	- **Sequence of Event Viewer**
	- **Engineering tools**
	  - SCS Information
	  - Database Validity check tool
	  - Master database restoring function
	  - Backup project
	  - Hardware maintenance
		- **Laboratory work:**
		  - **Setting up the Sequence of Event Viewer**
		  - **SCS Project Backup**

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