Centum VP Engineering Training

Course Code
VPEG

Course Overview
A 5-day instructor led course combining theory and hands-on tutorials. Participants will learn to: identify core components in a CENTUM VP system, create a project data-base and regulatory control functions, modify and enhance control functions, automate functions with sequence control and build and modify Human Interface Station configuration and graphic displays.

Who Can Take This Course
Engineers involved in project implementation, software configuration, plant upgrades and advanced maintenance modifications on the CENTUM VP system.

Participants should have attended CENTUM VPOperations course or have prior work ex-perience.

Course Methodology
Lecture, discussions and hands-on tutorials.

Course Outline
You will learn

Day 1
- CENTUM VP System Overview
- VP Hardware description
- Project Creation and Attribution Utility
- Introduction to System View engineering interface
- Hands-on tutorial: Project Creation, FCS and IO definition and HIS definition.
- FCS configuration
- Serial interfaces
- Hands-on tutorial: Serial communication with Modbus device
- Project Common Definition, security, alarms, plant hierarchy, common switches and messages
- Hands-on tutorial: Plant hierarchy setup

Day 2
- Introduction to Control Drawing Builder
- Introduction to Regulatory Control
- Hands-on tutorial: Create regulatory control loops e.g. cascade, ratio and pro-gramed control loops
- Introduction to Calculation Function Blocks
- Hands-on tutorial: Enhancing regulatory control loops with calculation function blocks e.g. Integrators, line segments, CALCU programmed function blocks

Day 3
- Enhancing Regulatory Control Functions
- Hands-on tutorial: Regulatory control with signal selection, split outputs and feed forward control

Day 4
- Introduction to Sequence Tables and Logic Charts
- Implementation guidelines
- Hands-on tutorial: Creation of stepped and non-stepped Sequence Tables, Logic Charts for multiple control requirements

Day 5
- Introduction to HIS Graphic Builder
- Core functionality and design concepts
- Hands-on tutorial: Graphic generation

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Certification

Participants who attain at least 75% attendance will be awarded Certificate of Attendance

Duration and Timing

5 days
Morning sessions: 9am – 12pm
Afternoon session: 1pm - 4pm

Venue

Yokogawa Australia Offices
Or
On site by special arrangement

Enquiries

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