Honeywell Academy

EXPERION PKS: FUNDAMENTALS – CONTROL EXECUTION ENVIROMENT CAB + ACE IMPELEMENTATION

COURSE OVERVIEW

Course Number: EXP-16
Course Duration: 3 Days

Prerequisite Course (s): EXP-2001C3 or EXP-2001UOC

This course provides you with the ability to configure custom blocks in a Control Execution Environment (CEE). The course shows you how to create a Custom Algorithm Block (CAB) for your control strategies that may need customization. While primarily focusing on CAB configuration, the course also provides Custom Data Block (CDB) configuration practice. The course extends your knowledge about configuring strategies in the CEE gained from a prerequisite Experion course.

Each participant will use an Experion Flex Station along with their own simulated ACE and simulated C300 controller to build custom strategies.

COURSE DELIVERY OPTIONS

- Asynchronous Training (AT)
  - ➢ Self-paced with 10 days to complete
- Virtual Instructor-Led Training (VILT)

COURSE OBJECTIVES

Plan and implement Experion Custom Algorithm Block in a C300 controller for your processes.

- Recognize custom block functionality and purpose
- Identifying system requirements, Planning, and design considerations
- Configure a Custom Algorithm Block (CAB)
- Coding a custom algorithm using Visual Basic (VB).net
- Reviewing insertion point requirements
- Creating a CAB to execute at an insertion point
- Considerations related to C300 CEE

Plan and implement Custom Algorithm Block in an ACE Controller for your process.

- Manage CAB strategies in terms of:
  - Modifying, exporting, and\or importing a block.
  - Testing and Debugging a CAB
- Configure dynamic re-referencing
- CAB - Additional Programming Considerations
  - Defining Time and Math Functions
  - Defining Additional Execution Modes in ACE
- Perform history access using a CAB through tasks as
  - Identifying history access requirements
- Coding a CAB to access history from an OPC HDA server
- Access ACE file data using a CAB
- Migrate a CL/HPM program to CAB
- Configure Inter-Cluster Peer-Peer Communication
- Planning CAB and CDB
- Test and Debug a CAB program

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