

EXPERION PKS: FUNDAMENTALS – C300 CONTROLLER IMPLEMENTATION

COURSE OVERVIEW

Course Number: EXP-2001C3

Course Duration: 4.5 days

Prerequisite Course (s): None

This course provides participants the ability to perform the following Experion PKS System tasks:

- Build control strategies in the Control Execution Environment that can be applied to the C300 (PMIO and Series C)
- Plan the C300 controller including the selection of appropriate I/O, redundancy, and communications
- C300 Series C IO configuration
- C300 Series C Reference IO configuration
- C300 Control Module configuration. This includes configuring Data Acquisition, Regulatory Control and Logic
- Perform Checkpoint Save and Restore
- C300 Sequential Control Module configuration. This includes the use of Steps and Transitions to implement process sequences
- The use of PMIO in C300 control strategies
- Learn basics of new C300(PCNT05) and CN100 controller

The course presents the basic concepts and strategies needed to develop guidelines for effective and consistent planning of the system. It includes extensive hands-on lab exercises where participants will build and configure a Control Execution Environment applicable to the C300.

COURSE DELIVERY OPTIONS

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

COURSE OBJECTIVES

- Recognize the role of the major hardware and software components and learn how data flows through the C300 controller
- Plan the C300 controller
- Select appropriate components of the C300 controller including processors, I/O, and communications
- Configure the C300 controller including:
 - Hardware
 - Converting a SPARE channel in an IOM to corresponding channel type and Configure Series C IO references
 - Control Modules, which incorporate Data Acquisition using Reference IO's, Regulatory Control and Device Control Logic
 - Sequential Control Modules which are used to control process sequences, such as start-up, shut down and batch operations
 - Checkpoint Save and Restore
- Configure additional I/O functionality for Honeywell Process Manager I/O applicable to C300 controller
- Perform Database Search operations
 - Parameter search
 - Where Used search
 - Dangling / Missing Connections
 - Online Data Search
- Learn basics of new C300 (PCNT05) and CN100 controllers