Course Overview

Course number: TPS-PT3376A
Course length: 5 days

Attendees become familiar with issues that affect the performance, database management, and troubleshooting of their LCN and UCN systems. In addition, attendees will increase their knowledge and understanding of UCN communications, peer-to-peer communications, NIM, and UCN loading. The course also expands database tasks, tools, and techniques for documenting, monitoring, and managing the UCN.

Note: Information provided during the course is Honeywell Proprietary and attendees will be requested to sign a non-disclosure clause before class commencement.

Course Benefits

This competency based course provides experienced users with an increased understanding of system operations and database management. Areas of emphasis include information and strategies used to resolve operation and configuration problems.

Course Delivery Options

- In-Center Instructor-Led Training
- On-Site Instructor-Led Training

Who Should Take This Course?

Attendees should be qualified electrical/instrument tradespeople or engineer

Prerequisite/Skill Requirements

Prerequisite Course (s)
- (TPS-PT030 or TPS-PT055 or TPS-PT065)
- (TDC-3300HPM or TDC-3300HPM-FT)

Required Skills and/or Experience
- None

Desirable Skills and/or Experience
- Attendees who can demonstrate that they have gained considerable experience in the implementation and system administration of LCN and UCN may also be welcome

Course Topics

- Describe the Honeywell Real-Time Network Operating System (RNOS), and the software environment including the following topics:
  - Node Administrator
  - Work Management
  - Communication Manager
  - Data access requests of the Universal Station and Computer Gateway
  - Complex Command Handler
  - Base Application Software
  - Be able to optimise and interpret the LCN distributed DataBase structure
  - Be able to manage data storage and perform software backup/checkpointing
  - Be able to describe the LCN token passing scheme, communication statistics, communication priority structure, and communication time-outs
  - Be able to interpret &ASY and NCF configuration tasks and carry out on-line NCF changes
  - Be able to describe and/or explain the following History Module operations and functions:
  - System File Server
  - Daylight Saving effects on process history
  - Disk Redundancy
  - Data access requests of the Universal Station and Computer Gateway
  - Be able to describe the typical Universal Station activity that occurs on display call-up and update
  - Be able to determine the performance of a system by interpreting the performance parameters within LCN nodes
  - Be able to interpret and describe the following UCN communication functions:
    - Use UCN statistics displays
    - Configuration considerations
    - Relate communication concepts to UCN statistics
    - Describe UCN cable handling algorithms
    - Interpret conditions on the UCN that contribute to UCN loading
    - Interpret conditions on the LCN that contribute to UCN loading
    - Resolve UCN peer-to-peer issues
    - Determine the load a UCN node places on the UCN
Course Topics Continued

- Be able to interpret UCN-related information displayed in the Toolkit display
- Be able to estimate a NIM’s loading and identify loading factors
- Be able to interpret information displayed in a Process manager’s schedule display, including:
  - Execution sub-cycles
  - Overruns
  - Slot execution order

Additional Training

To increase your knowledge and skills, there are additional courses available from Automation College.

For more information and registration, visit https://www.honeywellprocess.com/.