Course Overview

Course number: TPS-PT080
Course length: 4 days

This four day course provides experienced technical personnel with an increased understanding of the maintenance aspects of their UCN Systems. Areas of emphasis include information about the hardware layout of the various UCN devices including their cabling and interconnections, and practice in identifying component parts and ‘building’ a simple UCN system. Attendees become familiar with the basics of database definition and point building in classroom sessions, which are then followed by practical implementation exercises. Attendees are also provided with the opportunity to carry out extensive diagnostics utilizing the UCN Toolkit displays and practical troubleshooting exercises. In addition, attendees may carry out optional modules in the use of the Documentation Tool and Find Names utilities.

Course Benefits

This course provides experienced technical personnel with an increased understanding of the maintenance aspects of their UCN Systems.

Course Delivery Options

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

Who Should Take This Course?

Attendees should be qualified electrical/instrument trades people or engineers who have either gained considerable experience in the maintenance of LCN or UCN or attended one or more of the Honeywell Technical Education Centre courses listed below.

Prerequisite/Skill Requirements

Prerequisite Course(s)

- TPS-PT030 or
- TPS-PT035 or
- TPS-PT060 or
- TPS-PT065

Required Skills and/or Experience

- None

Desirable Skills and/or Experience

- None

Course Topics

- Given a US, (Universal Station), or GUS (Global User Station), be able to call up the UCN and APM or HPM status display and explain the information presented on each display
- Given a US, (Universal Station), or GUS (Global User Station), be able to call up the UCN and APM or HPM status display and use all the targets on each display
- Given diagrams of UCN configurations, be able to identify and describe any UCN configuration errors
- Be able to identify the NIM chassis, associated circuit cards and UCN cables network components and describe the functions and indicators on each circuit card
- Given a UCN for which all cables, taps, terminators are disconnected, be able to correctly connect all UCN components and set the NIM’s LCN and UCN addresses
- Be able to locate and replace selected ORUs, (Optimum Replaceable Units), in an APM or HPM
- Be able to perform an installation of the APM or HPM hardware, including the required hardware pinning
- Given a diagram of a UCN and a list of specific APM or HPM control requirements, be able to enter, load and checkpoint the Network and Box Data Points required to define the UCN and APM or HPM
- Give a diagram of a simple cascade control loop within an APM or HPM, be able to enter, load and operate each point in the strategy
- Give the Toolkit display available from Schematic PERFMENU, interpret UCN-related information contained within the display and list ways that the displays can be used to monitor system performance
- Give a US or GUS and LCN, be able to respond to System and Console alarms by calling up detailed information about the alarms
- Given an established database, be able to set up the directories and control file required by Doc tool and build queries to search and retrieve specific data from the online devices
- Be able to use the Find Names utility to locate UCN database connections and carry out searches from a command file
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/.