

# Uniformance PHD: Fundamentals - System Administration



## Course Overview

**Course number:** UNI-5747

**Course length:** 4.5 days

## Need to Administer Uniformance PHD R340 System?

This course provides participants with knowledge of features, tools and capabilities of the Uniformance R320 Process History Database (PHD) system including configuring the tags and RDIs, monitoring and troubleshooting system operations, managing archive files, and managing user privileges. Database backups are also discussed. Hands-on exercises provide practical experience performing all the major PHD administration and management tasks. The course does not discuss Experion R3xx/R4xx integration or migration and installation topics.

## Course Benefits

**Practical use and understanding of all the major Uniformance PHD interfaces and tools, along with a lot of tips and tricks when working with PHD R340.**

- Practical hands-on Administration of Uniformance PHD R340
- Design and configure tags, work with RDIs, understand the relationships of all the Uniformance PHD Services
- Automate PHD responses with USM embedded
- Tune tags and monitor PHD system

## Course Delivery Options

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

## Who Should Take This Course?

**Maintenance staff that need to understand Uniformance PHD Administration.**

- **PHD Administrator/Local Engineers** who creates/maintains tag definitions, determines database access security, monitors archive disk usage, and troubleshoots data collection performance issues and DCS related issues such as gateways and communications interfaces

- **PHD End User/Local Operators** who retrieves process history data using standard PHD tools and applications and develops custom applications as needed to support plant information requirements
- Staff responsible for Uniformance PHD Maintenance
- Data Backup & SQL Engineers
- Those taking their first steps to becoming Uniformance PHD implementers
- Those seeking Uniformance PHD R340 certification

## Prerequisite/Skill Requirements

### Prerequisite Course (s)

- None

### Required Skills and/or Experience

- Working knowledge of Windows 2016 Server
- Windows troubleshooting
- Knowledge of PC/network issues
- Experience with relational databases
- Microsoft Excel (basic navigation, product utilization)

### Desirable Skills and/or Experience

- Some programming experience (conditional logic and data types)
- Plant, process, and Distributed Control System tag knowledge

## Course Topics

Attendee will develop detailed understanding of these topics including (but not limited to):

- What Uniformance PHD340 is, its role in Process Control
- Work extensively in a number of labs with the PHD Configuration Tool
- Work with Tag Explorer and Client Tools
- RDIs and Tags their roles in data collection and storage
- Create and modify Tags, work with inheritance
- Import-Export Tags

## Course Topics continued

- Work with and configure On-demand calculations or Virtual Calculations including Stored Virtual Calculations and Functions
- Work with and create Manual Input Tags
- Adding User-Defined Engineering Units
- Recognise RDI Types
- You will utilise a number of RDIs and see their fundamental application
- Work extensively with RDI configuration, learn how to identify RDI states and correct
- Monitor and troubleshoot Tags, RDIs and other PHD components
- Understand PHD Global Sections and their implications
- Work extensively with logs, identify logs, roles and storage
- Utilise and use extensively the new Uniformance Console
- Automate with Uniformance System Monitor embedded edition
- Work with PHD services
- Identify common start-up issues
- Work with PHD and Windows Registry Settings
- Understand PHD Accounts and Security Options
- PHD Architecture
- Enhanced cluster server failover
- PHD Archives
- History Recovery
- Understand Robust Data Collection

## Appendix or Auxiliary Topics:

Other topics that you may also learn about include (let your instructor know which of these topics are of interest):

- Tag Synchronisation
- CEJ (Consolidated Event Journal, also known as EJC)
- PHD2Rel and Rel2PHD
- LxS RDI Details

The course presents the basic concepts and strategies needed to Administer Uniformance PHD release 340.

## Additional Training

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

**For more information and registration, visit [www.honeywellprocess.com/en-US/training](http://www.honeywellprocess.com/en-US/training).**