INTRODUCTION

Honeywell Automation College and our exceptional faculty and staff wish to extend you a warm welcome. Whether you are a returning student, just beginning your training plan or taking advantage of our online courses, Automation College offers you a quality learning experience to help exceed your performance goals.

Our training solutions are designed to help you become more productive and proactive while delivering greater value to your operations. Honeywell Automation College courses are targeted to meet your organizational needs and are delivered in the most convenient and cost-effective format.

Certified Instructors are available to work closely with you and your staff to define a comprehensive training program that can be conducted at one of our world class training facilities or even at your site.

TRAINING NEEDS ASSESSMENT

Training Needs Assessment (TNA) is a service that effectively identifies gaps between the capabilities of your Honeywell Automation & Control systems and the skills of your operations and maintenance workforce to exploit maximum benefits from it. The outcome of TNA is a comprehensive training plan focused on improving the effectiveness of your plant’s personnel, resulting in maximum benefits from your automation investment.

**Training Needs Assessment = Desired System Capability - Current workforce competency**

Instructor - Led Training

- **In-Centre or On-Site Training (ILT)**
  - Uninterrupted classroom environment
  - In-centre delivery: public and/or dedicated sessions
  - On-site delivery: cost effective for larger groups
  - Expert instructors utilize advanced training methodologies, encouraging interactions between students
  - Instructor is always available to assist you

Blended Learning (BL)

- Combination of Asynchronous Training (AT) and Instructor-Led Training (ILT)
- AT delivery (see page 4) comes in the form of highly interactive lectures, presentations, demonstrations and exercises to convey concepts.
- Individual learning at student’s own pace
- ILT delivery is in the classroom with expert instructions, demonstrations and practice of hands-on exercises and tasks
- Reduces travel expenses & minimises downtime
- Empower employees with greater flexibility

E-learning (EL)

- Learn anywhere, any time

Honeywell Automation College provides training services that are mobile, flexible and tailored to meet your requirements. If you are looking for a training course that is not listed in this catalogue, please contact your local Honeywell Automation College.

Tailored Training

- Standard training materials can be repackaged to meet your learning objectives.
- Focused course content for specific standard hardware and software functionality matching your system architecture.
- Cost effectiveness by focusing on applicable course materials.

Customized Training

- New course materials developed to address your unique needs and site requirements.
- Standard Training materials may be customized to include information specific to the process automation system installed at your facility.


E-LEARNING SOLUTIONS

Automation College offers different delivery methods for our e-learning courses. Each of these options reduces travel expense, minimizes time away from home and scheduled work, offers more flexibility in completing course work, and helps participant’s complete training “just-in-time”.

All e-learners are provided access to training materials via recorded lectures, demonstration videos and electronic course documentation. Questions and answers are addressed and 24 hour access is provided to remote servers for hands-on practice and lab assignments.

Asynchronous Training (AT): Asynchronous courses are self-directed and are given an extended amount of time for students to complete the training at their own pace. Questions and answers are addressed to an instructor via a designated mailbox.

Virtual Training (VT): Virtual courses have an initial ‘live’ one-hour course orientation and daily ‘live’ Q&A sessions with an instructor. Each course event has established set dates for students to complete their training.

Virtual Instructor Led Training (VILT): Virtual Instructor-Led courses have a full time ‘live’ instructor to deliver the training lectures. Participants and instructor are not physically in the same location. Courses have set dates scheduled for training. Following completion of e-learning, the Automation College Certification program provides a means for students to demonstrate that they have mastered the content of critical courses. Certification testing can be arranged at a convenient place and time.

Recorded Training (RT): These recordings are typically 1-2 Hours duration and address specific themes. For example, several identify the differences between a new product release and a previous release with which you might already be familiar. You have the ability to access all or part of these recordings as often as you wish for a specified duration.

What are the benefits?

• Overall reduced cost of training resulting in greater return on your training investments.
• Higher retention, due to interactivity, resulting in reduced time to competency.
• Time and place flexibility with solutions that can be completed from anywhere, at any time.
• Reduction of carbon footprint with electronic documentation and travel eliminated.
• Staff remain on site to be able to quickly respond to plant issues.

Learning Portal and Tools.

E-learners are provided access to the following tools through the Automation College learning portal to complete the training modules.

• Electronic course documentation is downloadable for future reference.
• Recorded Lectures including audio voice, text, graphics and images. Lectures can be resumed at any time and viewed several times.
• Demonstration Videos for an easy understanding of complex tasks on Honeywell systems. They can also be resumed at any time and viewed several times.
• Learning track for a fast return to the last viewed sequence and performance monitoring throughout the training module.
• 24 hour access to remote virtual machines that allows e-learners to execute hands-on practice and lab assignment at their own pace and own schedule.
• During Live Q&A sessions, a dedicated instructor answers participants’ questions using a conferencing system.

I want to register on E-learning courses

• Visit https://ac.ap.honeywell.com/ap.asp
• Select E-Learning from the “Country” drop down menu.
• You can enrol online by clicking on the course name of the session dates of interest. This brings up a new page with course details; click on the button “Enrol to Course Event” and complete the details on the enrolment form.
HONEYWELL CERTIFICATION PROGRAM

The Honeywell Certification Program is all about YOUR journey, where you are today, where you want to be tomorrow and defining your career goals. Today, Honeywell Automation College offers certification paths that cover key product lines to help provide objective validation that you have successfully mastered the content of key courses.

The benefits of Honeywell Certification Program are:
- Extended challenge strengthens know-how and material mastery
- Standardized tests demonstrate knowledge gained
- Employee competence is assured
- Efficient, effective measure of skill level
- Get the most out of the functionality of your technology

With a duration of up to four hours, the certification tests can be taken on the last day of the course and it will be proctored by an Automation College representative.

STANDARD TRAINING COURSES

EXPERION PKS

Experion® Process Knowledge System (PKS) is Honeywell’s unified system for process, business and asset management that helps industrial manufacturers increase profitability and productivity.

Experion PKS transforms process control beyond traditional Distributed Control System (DCS) functionality by unifying people with process variables, business requirements and asset management. It is the only automation system that focuses on plant personnel and making the most of their knowledge.

OVERVIEW

EXP-6000 - Experion PKS: Fundamentals - System Overview
2 Days
ILT, EL

Gain understanding of a system network hierarchy and the components that reside on each network layer, given multiple business / process applications.

EXP-1018-RT - Experion PKS: Fundamentals - Virtualization Premium Platform FX2 Overview
2 Hours
EL

Learn the Honeywell Virtualization Premium Platform based on Dell FX2 system.

EXP-1021 - Experion PKS: Fundamentals - TPS to Experion PKS/Experion LCN System Integration Overview
5 Days
EL

Learn to install, migrate and troubleshoot a TPS System integrated to Experion PKS/Experion LCN system.

OPERATION

EXP-01 - Experion PKS: Fundamentals - Controller Operation
3 Days
ILT, EL

Learn how to efficiently operate the Experion PKS System comprising Experion PKS Server, Fault Tolerant Ethernet and the C200/300 controllers.

EXP-12 - Experion PKS: Fundamentals - TPS Operation
4 Days
ILT

Learn how to operate the Experion PKS System integrated with a TotalPlant Solution (TPS) system.

EXP-13 - Experion PKS: Fundamentals - Controller and TPS Operation
4 Days
ILT

Learn how to operate the Experion PKS System connected to both the C200/300 controllers and the TotalPlant Solution (TPS) system.

EXP-26 - Experion PKS: Fundamentals - SCADA Operation
2.5 Days
ILT, EL

Learn to operate the Experion PKS System comprising the Experion PKS Server and SCADA controllers.


Course Delivery Types: ILT - Instructor Led and EL - E-learning
## IMPLEMENTATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Duration</th>
<th>Delivery Type(s)</th>
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</thead>
<tbody>
<tr>
<td>EXP-02</td>
<td>Experion PKS: Fundamentals - Server Engineering &amp; Configuration Implementation</td>
<td>4.5 Days</td>
<td>ILT, EL</td>
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<tr>
<td>EXP-03</td>
<td>Experion PKS: Fundamentals - Graphics Design and Building Implementation</td>
<td>4 Days</td>
<td>ILT, EL</td>
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<tr>
<td>EXP-16</td>
<td>Experion PKS: Fundamentals - Control Execution Environment CAB + ACE Implementation</td>
<td>3 Days</td>
<td>ILT, EL</td>
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<tr>
<td>EXP-2001C</td>
<td>Experion PKS: Fundamentals - C300 Controller Implementation</td>
<td>4.5 Days</td>
<td>ILT, EL</td>
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<tr>
<td>EXP-24</td>
<td>Experion PKS: Fundamentals - Controller Fieldbus Configuration Implementation</td>
<td>4 Days</td>
<td>ILT</td>
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<tr>
<td>EXP-30</td>
<td>Experion PKS: Advanced - Field Device Manager (FDM) Implementation and Troubleshooting</td>
<td>4 Days</td>
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<td>EXP-48</td>
<td>Experion PKS: Fundamentals - Virtualization Implementation</td>
<td>4.5 Days</td>
<td>ILT, EL</td>
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<tr>
<td>EXP-50</td>
<td>Experion PKS: Fundamentals - Configuration, Graphics Building and Control Strategy Implementation</td>
<td>5 Days</td>
<td>ILT, EL</td>
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<tr>
<td>EXP-90</td>
<td>Experion PKS: Advanced - On-Process Migration Implementation</td>
<td>4.5 Days</td>
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<td>EXP-1011-AT</td>
<td>Experion PKS: Advanced - Class Based Recipes Implementation</td>
<td>3 Days</td>
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## MAINTENANCE

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<tbody>
<tr>
<td>EXP-19-RT</td>
<td>Experion PKS: Fundamentals - HMIWeb Differences</td>
<td>2 Hours</td>
<td>EL</td>
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<tr>
<td>EXP-2001</td>
<td>Experion PKS: Fundamentals - ESVT and ES-T Administration</td>
<td>4.5 Days</td>
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<tr>
<td>EXP-25</td>
<td>Experion PKS: Advanced - System Level Troubleshooting and Maintenance</td>
<td>9.5 Days</td>
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## ADMINISTRATION

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<tbody>
<tr>
<td>EXP-23</td>
<td>Experion PKS: Advanced - Server and Station Installation and Administration</td>
<td>9.5 Days</td>
<td>ILT, EL</td>
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<tr>
<td>EXP-1016</td>
<td>Experion PKS: Advanced - Server and Station (Non LCN-Connected) Installation and Administration</td>
<td>5 Days</td>
<td>ILT, EL</td>
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## DIFFERENCES

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<tbody>
<tr>
<td>EXP-17-RT</td>
<td>Experion PKS: Fundamentals - Server Differences</td>
<td>7 Hours</td>
<td>EL</td>
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<tr>
<td>EXP-18-RT</td>
<td>Experion PKS: Fundamentals - Controller Differences</td>
<td>2 Hours</td>
<td>EL</td>
</tr>
<tr>
<td>EXP-19-RT</td>
<td>Experion PKS: Fundamentals - HMIWeb Differences</td>
<td>1 Hour</td>
<td>EL</td>
</tr>
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For online registration visit https://ac.ap.honeywell.com/ap.asp
TPS / TDC

Honeywell’s TotalPlant Solution (TPS) System integrates, via the Local Control Network (LCN), legacy TDC 3000 modules like Universal Station (US), Network Interface Module (NIM) and History Module (HM), with Windows-based Global User Station (GUS) and Application Processing Platform (APP) nodes. The NIM interfaces the LCN with the Universal Control Network (UCN), on which the Process Manager family of controllers reside.

TPS continues to provide large scale Distributed Control System (DCS) capabilities and offers customers the flexibility to integrate into the latest Experion® LCN systems. The new Experion® LCN solution enables customers to upgrade to Experion and enable improvements in safety, profitability and operations while using their existing system as a strong foundation.

OVERVIEW

TPS-0004 - TPS: Fundamentals - LCN / UCN (GUS) Overview
4 Days
ILT, EL

Gain an introduction to the terminology, control philosophy and functions of the TPS System consisting of a LCN and UCN with HPM controller. Obtain a basic understanding of the architecture and hardware of the TPS System.

IMPLEMENTATION

TPS-0005 - TPS: Fundamentals – LCN Configuration Implementation
5 Days
ILT, EL

Learn how to configure a TotalPlant Solution System that includes building an NCF as well as initializing a History Module (HM). Gain understanding of configuration tasks such as building a GUS button file, History Groups, basic custom displays and building an Area Database.

TPS-0006 - TPS: Fundamentals – Point Building and UCN/HPM Implementation
5 Days
ILT, EL

Learn how to configure a UCN system that includes NIM and HPM, how to enter and load HPM points as well as perform a checkpoint to save configuration and point data.

TPS-0007 - TPS: Fundamentals – HPM/EHPM Points and CL Implementation
5 Days
ILT, EL

Learn how to implement HPM functions such as building HPM regulatory control, digital, logic, and box variable points as well as writing HPM control language (CL) programs. This course is designed for personnel who already have a fully implemented TPS system and will be responsible only for building HPM points and writing HPM CL programs from a Global User Station.

TPS-0008 - TPS: Advanced – APP Node AM/CL Implementation
4.5 Days
ILT, EL

Learn to configuring Application Module (AM) points, Control Language (CL) programs, and Custom Data Segments, then linking them together in supervisory control schemes. Control schemes are implemented on the Application Processing Platform (APP) node using the GUS Native Window as the user interface and the Data Entity Builder (DEB) as the configuration tool. This course introduces the process of initiating Windows-side applications from Local Control Network (LCN)-side CL programs.

TPS-0009 - TPS: Advanced – Picture Editor Graphics Building Implementation
3 Days
ILT, EL

Learn techniques for building sophisticated Picture Editor Custom Graphic displays using the Picture Editor function. Learn to use variables, targets, variables, conditional behaviour: collectors, subpictures, and the display database to create displays that provide process information and interaction, including the handling of alarms.

TPS-PT3376A - TPS: Advanced – LCN and UCN Management
5 Days
ILT

Become familiar with issues that affect the performance, database management and troubleshooting of LCN and UCN systems. Increase 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.

MAINTENANCE

TPS-0014 - TPS: Fundamentals – LCN Maintenance
5 Days
ILT

Learn how to identify LCN hardware, troubleshoot and resolve errors, perform routine maintenance, perform preventive maintenance on the LCN, and use a TDR (Tektronix LS503C). This course is designed for personnel who already have a fully implemented TPS system and will only be responsible for maintaining the LCN.

TPS-0015 - TPS: Fundamentals – APM/HPM Troubleshooting and Maintenance
5 Days
ILT

Learn how to identify UCN hardware, troubleshoot and resolve errors, perform routine maintenance, perform preventive maintenance on the UCN, use a TDR (Tektronix LS503C) and Relcom Carrier Band Tester. This course is designed for personnel who already have a fully implemented TPS system and will only be responsible for maintaining the UCN.

SAFETY MANAGER

Honeywell’s safety systems lower the cost of safety and improve plant performance by reducing the risk of safety incidents, maximizing production uptime, reducing the cost of compliance and providing productivity tools that help customers manage safety in their plant.

Safety Manager™, Honeywell’s next-generation safety system platform, is an effective and reliable safety solution for critical process control, equipment, and process protection. Safety Manager combines proven technology with two decades of Honeywell’s process safety management expertise in integrating process safety data, applications, system diagnostics, and critical control strategies.

OVERVIEW

SM-4553 - Safety Manager: Fundamentals - Overview
1 Day
ILT

Gain an understanding of the different architectures of Safety Manager, an overview of the hardware and software, and its safety concept.

OPERATION

SM-4552 - Safety Manager: Fundamentals – Operation
1 Day
ILT

Learn about operating Safety Manager (SM) software, and the technical aspects of the system, including safety and availability considerations.

IMPLEMENTATION

SM-4551 - Safety Manager: Fundamentals – Implementation
4.5 Days
ILT

Learn how to implement Safety Manager (SM) projects, obtain knowledge of technical aspects of the system, and with some programming.

SM-4554 - Safety Manager: Fundamentals – On-Line Modification Implementation
2 Days
ILT

Learn how to perform On-Line Modifications (OLM), including how to modify an application, upgrade to a newer software release, adding or removing additional hardware online.

SM-4555 - Safety Manager: Advanced – Implementation
5 Days
ILT

Learn about Safety Manager (SM) system's basic programming, operation, troubleshooting techniques, diagnostics and online changes.

MAINTENANCE

SM-4550 - Safety Manager: Fundamentals – Maintenance
4.5 Days
ILT

Learn how to support the Safety Manager system with first-call maintenance.

Course Delivery Types: ILT - Instructor Led and EL - E-learning

For online registration visit https://ac.ap.honeywell.com/ap.asp
**SAFETY MANAGER SC**

Honeywell’s Safety Manager SC is a logical evolution of the Safety Manager. It is operationally integrated with Experion and meets the latest cyber security standards, ensuring safety, simplifying operations and reducing costs by providing a single safety platform to support small packaged applications to a large distributed architecture. The TÜV certified design allows for Honeywell’s advanced features such as Sequence of Events, Alarm and Events, Dynamics Alarm Management. Process Safety Analyzer and Field Device Manager.

**OVERVIEW**

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<tbody>
<tr>
<td>SMSC-0004</td>
<td>Safety Manager SC: Fundamentals - Overview</td>
<td>1 Day</td>
<td>ILT</td>
</tr>
<tr>
<td>SMSC-0003</td>
<td>Safety Manager SC: Fundamentals – Operation</td>
<td>1 Day</td>
<td>ILT</td>
</tr>
<tr>
<td>SMSC-0005</td>
<td>Safety Manager SC: Fundamentals – On-Line Modification Implementation</td>
<td>2 Days</td>
<td>ILT</td>
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<tr>
<td>SMSC-0006</td>
<td>Safety Manager SC: Advanced – Implementation</td>
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**IMPLEMENTATION**

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<tr>
<td>SMSC-0001</td>
<td>Safety Manager SC: Fundamentals – Implementation</td>
<td>4.5 Days</td>
<td>ILT</td>
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<tr>
<td>SMSC-0002</td>
<td>Safety Manager SC: Fundamentals – Maintenance</td>
<td>4 Days</td>
<td>ILT</td>
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<tr>
<td>SMSC-0003</td>
<td>Safety Manager SC: Fundamentals – Operation</td>
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<td>Safety Manager SC: Fundamentals – Maintenance</td>
<td>5 Days</td>
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**SAFETY MANAGEMENT SYSTEMS**

Honeywell’s TÜV-certified Functional Safety Engineering course introduces participants to the concepts and practical application of safety standards. The course follow the Safety Lifecycle all the way from SIS specification (hazard and risk analysis, SIL assignment, safety requirements specification) through the design and analysis phases (SIS architectures, SIL verification calculations) to the operations and maintenance phases (assessments and MOC). Successful participants receive the TÜV issued Functional Safety Engineer certificate.

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<td>Safety Manager SC: Fundamentals – Operation</td>
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**FAIL SAFE CONTROLLER**

The Fail Safe Controller® (FSC) is a user-programmable, Dual Modular Redundant (DMR) or Quadruple Modular Redundant (QMR™) microprocessor-based safety system which can perform a wide range of high-integrity process control and safety functions. It is integrated with the TPS (Total Plant Solution) control system.

**OVERVIEW**

<table>
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<tr>
<td>FSC-4501</td>
<td>Fail Safe Controller: Fundamentals - Managers Overview</td>
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<tr>
<td>FSC-4502</td>
<td>Fail Safe Controller: Fundamentals – On-line Modification Implementation</td>
<td>4 Days</td>
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<tr>
<td>FSC-4503</td>
<td>Fail Safe Controller: Fundamentals – Implementation</td>
<td>4 Days</td>
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<tr>
<td>FSC-4504</td>
<td>Fail Safe Controller: Advanced – Implementation</td>
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**IMPLEMENTATION**

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<tr>
<td>FSC-4505</td>
<td>Fail Safe Controller: Advanced – Implementation</td>
<td>4 Days</td>
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<tr>
<td>FSC-4506</td>
<td>Fail Safe Controller: Maintenance</td>
<td>2 Days</td>
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**INDUSTRIAL TOPICS**

Honeywell’s training courses on Industrial Topics focuses on a wide range of industrial training options that are specific to participants’ automation applications and solutions

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<tbody>
<tr>
<td>INDT-0008</td>
<td>Industrial Topics: Fundamentals – Power and Grounding Overview</td>
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<td>ILT</td>
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For online registration visit: [https://ac.ap.honeywell.com/ap.asp](https://ac.ap.honeywell.com/ap.asp)
RTU2020
The Honeywell RTU2020 Remote Terminal Unit (RTU) is a powerful, modular and scalable controller capable of all remote automation and control applications. In conjunction with Honeywell’s feature-rich SCADA products, it provides an integrated solution that solves complex remote automation requirements for oil and gas fields. With Experion® SCADA, it helps users visualize what they need to know to simplify management of field assets.

2 Days
EL
Learn to plan, operate, and integrate RTU2020 system; configure and program RTU2020 for communication with SCADA servers such as Experion and asset management systems like FDM; and program RTU2020 for performing metering functions compliant to AGA standards for gas and API 11.1, API 21.1 standards for liquids.

CONTROLEdge
ControlEdge™ programmable logic controller (PLC) is one of Honeywell’s first IIoT-ready controllers. When combined with Experion®, ControlEdge PLC provides secure connectivity and tight integration to devices from multiple vendors and works with any SCADA system. Honeywell offers training course that includes implementation of ControlEdge™ PLC along with Experion integration and maintenance overview.

IMPLEMENTATION
CTE-0001 - ControlEdge™: Fundamentals - PLC (with Experion Integration) Implementation
2 Days
EL
Learn to configure and implement ControlEdge PLC, integrate with Experion and obtain an overview of maintenance tasks.

HC900
The Honeywell HC900 Hybrid Controller is an advanced loop and logic controller offering a modular design to satisfy the control and data management needs of a wide range of process equipment. When combined with the optional 900 Control Station operator Interface that is tightly integrated with the controller’s database, configuration and setup time is minimized. This powerful combination, backed by Honeywell’s performance proven control technology, provides users an ideal solution for process control. In addition, open Ethernet connectivity with Modbus TCP Protocol allows network access using a variety of HMI/SCADA software.

IMPLEMENTATION
HC-0001 - HC900: Fundamentals – Controller and Control Station Implementation
4 Days
ILT
Acquire an understanding of the HC900 system architecture, configuration methods and commissioning tools.

RC500 RTU
The RC500 RTU implementation training provides participants the required exposure to plan and implement a system effectively at their site. The course deals with hardware and software components required for installing and configuring the system as well as its integration with Experion Process Knowledge Systems (PKS).

IMPLEMENTATION
RC-0001 – RC500 RTU: Fundamentals – RC500 Implementation with Experion PKS Integration
4.5 Days
IL, EL
Learn the basic concepts and strategies needed to develop guidelines for effective and consistent planning of the RC500 system.

MASTERLOGIC
MasterLogic programmable logic controllers (PLCs) are modular, scalable and rack-based. The PLCs are available as stand-alone products as well as distributed with peer-to-peer connections. The CPUs, power supplies and rack sizes are available in various models to suit different applications.

4.5 Days
IL, EL
Learn the basic concepts and strategies needed to develop guidelines for effective and consistent planning of the MasterLogic 200R (ML200R).

CYBER SECURITY
Honeywell's Industrial Cyber Security is a combination of practices, processes and technologies designed to defend process control networks, systems, computers, programs and data from attack, damage, disruption, unauthorized access or misuse. It is more than just software patches and should be approached as a continuous, critical process.

IS-0003AP – Industrial Cyber Security Fundamentals
1 Day
IL, EL
Learn the concepts of the current cyber security landscape, the importance of securing control systems from cyber attacks and concepts for implementing mitigation strategies.

IS-0006AP – Industrial Cyber Security Workshop
2 Days
IL, EL
Gain a detailed understanding of industrial cyber security governance and management based on the ISA-99/IEC 62443’s CSMS (Cyber Security Management System). Includes a hands-on hacking session while applying preventative measures and securing a Process Control Network via a computer-aided design software toolkit.

For online registration visit https://ac.ap.honeywell.com/ap.asp
UNIFORMANCE PHD

Honeywell’s Uniformance® Process History Database (PHD) provides a rich, flexible environment for the collection, storage, and analysis of process data. Its collector/shadow architecture allows data to be gathered from disparate control systems and other data sources, into a unified database for long-term storage. The PHD database may be centrally configured and managed, gathering data from many systems including Honeywell Experion® Process Knowledge System (PKS) and TotalPlant® Solution (TPS), OPC Servers, and other third-party sources. This data is “shadowed” into a single centralized database, allowing engineers and plant management to analyze the performance of the entire operation from a single location.

IMPLEMENTATION

UNI-5768 – Uniformance PHD: Fundamentals - Process Studio Implementation
2 Days
Learn to utilize Uniformance® Process Studio for the access and analysis of Uniformance data using trends, tables, and multitrends.
ILT

UNI-0001-WS – Uniformance PHD: Installation on Clusters Implementation - Workshop
2 Days
Gain the knowledge to install, configure and maintain a Uniformance PHD system on a Microsoft Failover Cluster.
ILT

ADMINISTRATION

UNI-5747 – Uniformance PHD: Fundamentals – System Administration
4.5 Days
Gain knowledge of the features, tools and capabilities of the Uniformance 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.
ILT

UNI-0002 – Uniformance PHD: Fundamentals – Process Studio and System Administration
4 Days
Gain knowledge of the features, tools and capabilities of the Uniformance Process History Database (PHD) system including configuring the tags, monitoring and troubleshooting system operations and managing user privileges. Learn to utilize standard features for access and analysis of data using trends, tables and MS-Excel Companion.
ILT, EL

PROCESS DESIGN SIMULATION

The UniSim® family of software products improves plant performance and overall business results for the process industry. UniSim Design is an intuitive and interactive process modelling offering that enables engineers to create steady-state and dynamic models for plant design, performance monitoring, troubleshooting, operational improvement, business planning and asset management.

2 Days
Learn how to build, evaluate and optimize steady state process flowsheets using UniSim Design, as well as learn techniques and short-cuts for efficient use of the program.
ILT

2 Days
Learn how to use and apply advanced modelling techniques to enhance existing UniSim Design models.
ILT

2 Days
Learn how to develop the skills and understanding required for creating and running dynamic simulations using UniSim Design Dynamics.
ILT

ADVANCED PROCESS CONTROL

Advanced Process Control (APC) products address all aspects of advanced process control and optimization from improving regulatory loop control to globally optimizing the entire process using a unique layered approach. This model allows new technologies to be easily added at any time to a common platform that meets optimization objectives without compromising on future opportunities to improve business performance. Delivered through the unified Experion® Process Knowledge System (PKS) architecture, Honeywell’s APC products improve profitability by increasing throughput, reducing costs, increasing yields and improving product quality.

IMPLEMENTATION

4.5 Days
Learn the multivariable predictive control design and implementation using Profit Controller software.
ILT

4.5 Days
Learn the multivariable predictive control design and implementation using Profit Controller software.
ILT

MAINTENANCE

4 Days
Learn to evaluate and improve the performance of Profit Controller applications, and to adjust the application models and tuning parameters for improved controller performance.
ILT

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PROFIT BLENDING AND MOVEMENT

By delivering complete planning, execution, and performance monitoring of blending and movement operations, Honeywell’s blending and movement products improve operations and optimize in-line blending to increase plant profitability and minimize incidents. These products provide and execute formulations that meet inventory constraints, delivery schedules, and product specifications, while also facilitating data analysis and determining key performance indicators.

MAINTENANCE

PBM 0003 – Blending & Movement: Fundamentals – Movement Automation Maintenance

- **5 Days**
- Acquire the knowledge relating to Movement Automation (MA) concepts and individual modules, including practical experience in using and configuring MA.

PBM 0001 – Blending & Movement: Fundamentals - Experion Ratio Controller Maintenance

- **2 Days**
- Learn using Experion Ratio Controller (ERC) which covers application functional overview, application setup & monitoring, software structure & configuration, and troubleshooting & maintenance.

PBM 0002 – Blending & Movement: Fundamentals - Experion Ratio Controller Maintenance

- **1 Day**
- Learn using Profit Inventory Monitor (PIM) which covers application functional overview, application setup & monitoring, software structure & configuration, and troubleshooting & maintenance.

PBM 0006 – Blending & Movement: Fundamentals – BusinessFLEX Open Blend Property Control (OBPC) Maintenance

- **2 Days**
- Learn how to use Open Blend Property Control (OBPC) in a combined lecture and lab environment.

OPERATOR TRAINING AND SIMULATION

UniSIM® Operations Suite helps prepare operators for initial & sustained plant operation. Improved profit recognition & business performances ensured by additional days of production achieved through safe, reliable and efficient plant operation.


- **5 Days**
- Improve distillation operations knowledge and skills. Course lessons and exercises build on basic process knowledge with practical examples using high fidelity process simulation.

OTS-0008-AT – Operator Training & Simulation: Fundamentals – Hydro Treating Unit Operation

- **5 Days**
- Improve hydro treating unit operations knowledge and skills. Course lessons and exercises build on basic process knowledge with practical examples using high fidelity process simulation.


- **5 Days**
- Improve fired heater operations knowledge and skills. Course lessons and exercises build on basic process knowledge with practical examples using high fidelity process simulation.

OTS-0010-AT – Operator Training & Simulation: Fundamentals – Centrifugal Compressor Operation

- **3 Days**
- Improve your centrifugal compressor operations knowledge and skills. Course lessons and exercises build on basic process knowledge with practical examples using high fidelity process simulation.

ADVANCED ALARM MANAGEMENT

Poor alarm management is often a key factor leading to incidents and accidents at process plants, resulting in high financial costs and sometimes, even loss of life. Honeywell offers training courses that include best practices needed to design and engineer a good alarm system as well as a software course to assist in effective usage of Advanced Alarm Management tools.

IMPLEMENTATION

AAM-0004 – Adv. Alarm Mgmt.: Fundamentals – DynAMo Effective Usage Implementation

- **4 Days**
- Get an introduction to the configuration and usage of the DynAMo product suite. Gain the skills and knowledge to optimize Operator effectiveness and eliminate incidents or reduce their impact.


- **4 Days**
- Gain the skills and knowledge to optimize operator effectiveness and eliminate incidents or reduce their impact.


- **2.5 Days**
- Gain an understanding of the best practices in Alarm Management and the techniques and tools needed to apply them.

ADMINISTRATION


- **4 Days**
- Get an introduction to the configuration and maintenance of the DynAMo product suite. The participants will gain the skills and knowledge to install, configure, and maintain DynAMo Alarm Suite.


- **4 Days**
- Gain the skills and knowledge required to install and configure AAM applications.

Course Delivery Types: ILT - Instructor Led and EL - E-learning

For online registration visit https://ac.ap.honeywell.com/ap.asp
Asia Pacific Automation College Contacts

Please find below the contact information for all our training locations in Asia Pacific. For additional information, please visit our website: https://www.honeywellprocess.com/en-US/training.

For on-line enrolment, visit our schedule webpage:  https://ac.ap.honeywell.com

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