HONEYWELL AUTOMATION COLLEGE
2019 TRAINING CATALOGUE - ASIA PACIFIC

Helping improve the performance of your workforce to gain maximum benefit from your automation investment.
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. The courses are targeted to meet your organizational needs and are delivered in the most convenient and cost-effective format.

Our team is 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

You have recently upgraded/purchased a state-of-the-art automation system. However, is your workforce able to exploit its full benefits?

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

In-Center Training
- Uninterrupted classroom environment
- We bring the classroom to you
- Learn anywhere, any time

On-Site Training
- Small student groups
- Cost effective for larger student groups
- Individual learning at student’s own pace
- Dedicated workstations for each student
- Eliminates logistical barriers for training
- Reduces travel expenses & minimises downtime
- Expert instructors utilizing advanced training methodologies
- Integrates into work environment
- Empower employees with greater flexibility
- Instructor is always available to assist you

E-learning
- Cost effective for larger student groups
- Individual learning at student’s own pace
- Reduces travel expenses & minimises downtime
- Expert instructors utilizing advanced training methodologies
- Integrates into work environment
- Empower employees with greater flexibility
- Instructor is always available to assist you

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

For over 10 years, Honeywell has been certifying its employees on Experion PKS, Safety Manager and Uniformance PHD and TotalPlant Solutions. Now the same certification process is offered to your own workforce.

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. Depending on the course, the participant gets an opportunity to earn the following certifications. Registration allows candidates two attempts to pass an examination within a 30-day period. If not successful, candidates must wait at least 30 days and re-register for the certification.


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

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

**2 Days**

**ILT, AT, VT**

**Become a Certified Associate (See Page 6 for more details)**

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

**1 Hour**

**RT**

**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**

**ILT**

**Gain information to install, migrate and troubleshoot a TPS System integrated to Experion PKS/Experion LCN System.**

**Become a Certified Associate (See Page 6 for more details)**

OPERATION

EXP-01 - Experion PKS: Fundamentals - Controller Operation

**3 Days**

**ILT, AT, VT**

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

**Become a Certified Associate (See Page 6 for more details)**

EXP-12 - Experion PKS: Fundamentals - TPS Operation

**3 Days**

**ILT**

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

**Become a Certified Associate (See Page 6 for more details)**

EXP-13 - Experion PKS: Fundamentals - Controller and TPS Operation

**3 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**

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

Course Delivery Types: ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)
### IMPLEMENTATION

**EXP-02 - Experion PKS: Fundamentals - Server Engineering & Configuration Implementation**
- **4.5 Days**
- Learn how to plan an Experion PKS system effectively, configure a server for SCADA connections, integrate with OPC and TPS platforms, and use Experion PKS data in other applications.
- Become a Certified Associate
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-03 - Experion PKS: Fundamentals - Graphics Design and Building Implementation**
- **4 Days**
- Learn how to develop Experion PKS display design guidelines and operating displays using the HMIWeb Display Builder.
- Become a Certified Associate
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-16 - Experion PKS: Fundamentals - Control Execution Environment CAB + ACE Implementation**
- **4.5 Days**
- Learn concepts and strategies needed to plan, configure and build a Control Execution Environment (CEE) applicable to C200 and C300 controllers.
- Become a Honeywell Certified Specialist
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-21 - Experion PKS: Fundamentals - Experion Batch Manager (EBM) - Instance Based Recipes Implementation**
- **5 Days**
- Learn how to apply Experion Batch Manager (EBM) instance based recipes to their process needs.
- Become a Honeywell Certified Specialist
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-24 - Experion PKS: Fundamentals - Controller Fieldbus Configuration Implementation**
- **4 Days**
- Learn how to build and configure a C200/C200E/C300 controller with a Fieldbus Interface Module (FIM).
- Become a Honeywell Certified Specialist
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-30 - Experion PKS: Advanced - Field Device Manager (FDM) Implementation and Troubleshooting**
- **4 Days**
- Learn how to build HART, FF networks, configure HART, FF devices, configure HART Multiplexers, modify parameters, utilize history functions, configure and use Max-Monitoring solution and troubleshoot HART devices using Field Device Manager (FDM).
- Become a Certified Associate
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-48 - Experion PKS: Fundamentals - Virtualization Implementation**
- **4.5 Days**
- Learn the concepts and guidelines needed to implement (Experion PKS off-process)/on-process/virtual system.
- Become a Honeywell Certified Specialist
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

- **9.5 Days**
- Learn all basic concepts and strategies needed to effectively and consistently plan Experion PKS operating displays, and to configure a Control Execution Environment (CEE) applicable to the C200 and C300 controllers. + HMIWeb
- Become a Honeywell Certified Professional
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-90 - Experion PKS: Advanced - On-Process Migration Implementation**
- **4.5 Days**
- Learn how to qualify systems for On-Process migration and migration of redundant servers, stations, and controllers.
- Become a Honeywell Certified Professional
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-1011-AT - Experion PKS: Advanced - Class Based Recipes Implementation**
- **3 Days**
- Learn how to perform Experion Batch Manager tasks: create Layered Recipes, under stand use of Recipe Builder, and use of Class Based Recipes (CBR).
- Become a Honeywell Certified Professional
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-1015 - Experion PKS: Fundamentals - Basic Networking Concepts and FTE Implementation**
- **3 Days**
- Learn the concepts of networking and guidelines needed to implement FTE.
- Become a Certified Associate
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

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### IMPLEMENTATION

**EXP-1016 - Experion PKS: Fundamentals - OPC Concepts and Implementation**
- **3.5 Days**
- This course provides participants the ability to configure and manage Experion PKS interface with 3rd party devices and systems via OPC.
- Become a Certified Associate
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-1022 - Experion PKS: Fundamentals - Experion LCN (ELCN) Network Migration Implementation**
- **3 Days**
- Gain TPS/Experion skills and knowledge required to configure, implement and migrate a TPS system to Experion LCN (ELCN) Network.
- Become a Certified Associate
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

### DIFFERENCES

**EXP-17-RT - Experion PKS: Fundamentals - Server Differences**
- **7 Hours**
- Learn about Experion PKS features available from one product release to another. This course describes with slides and demonstrations, the differences in the EXP-02 course resulting from the new product release updates. Also covered in EXP-02.
- Become a Certified Associate
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-18-RT - Experion PKS: Fundamentals - Controller Differences**
- **2 Hours**
- Learn about Experion PKS features available from one product release to another. This course describes with slides and demonstrations, the differences in the EXP-2001 course resulting from the new product release updates. Also covered in EXP-2001.
- Become a Certified Associate
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-19-RT - Experion PKS: Fundamentals - HMIWeb Differences**
- **1 Hour**
- Learn about Experion PKS features available from one product release to another. This course describes with slides and demonstrations, the differences in the EXP-03 course resulting from the new product release updates. Also covered in EXP-03.
- Become a Certified Associate
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

### MAINTENANCE

**EXP-05C3 - Experion PKS: Fundamentals - C300 Troubleshooting and Maintenance**
- **5 Days**
- Gain a full understanding of both the hardware and software facets of the Experion PKS C300 controller interfaces.
- Become a Certified Associate
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-25 - Experion PKS: Advanced - System Level Troubleshooting and Maintenance**
- **9.5 Days**
- Obtain in-depth training on how to troubleshoot both the hardware and software of the Experion PKS system.
- Become a Honeywell Certified Professional
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

### ADMINISTRATION

**EXP-1002 - Experion PKS: Fundamentals - EDVT and ES-T Administration**
- **4.5 Days**
- Learn the concepts and strategies needed to administer and maintain TPS connected Experion PKS System.
- Become a Honeywell Certified Professional
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-23 - Experion PKS: Advanced - Server and Station Installation and Administration**
- **9.5 Days**
- Undergo intensive training in planning, installing, configuring, and administering the Experion® PKS Systems (LCN-connected or non-LCN-connected).
- Become a Honeywell Certified Professional
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

**EXP-1014 - Experion PKS: Advanced - Server and Station (Non LCN-Connected) Installation and Administration**
- **9.5 Days**
- Undergo intensive training in planning, installing, configuring, and administering the Experion® PKS Systems (Non-LCN connected).
- Become a Honeywell Certified Professional
  
**Course Delivery Types:** ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

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For online registration visit [https://ac.ap.honeywell.com/ap.asp](https://ac.ap.honeywell.com/ap.asp)
TPS / TDC
Honeywell’s TotalPlant Solution (TPS) system integrates TDC 3000 modules with powerful Windows-based Global User Station (GUS) and Application Processing Platform (APP) notes that connect directly to the Local Control Network (LCN). The GUS provides graphic display capabilities in addition to all Universal Station displays. The APP provides advanced supervisory control as well as a data interface for higher level applications.

TPS is the backbone of thousands of control systems and continues to provide large scale Distributed Control System (DCS) capabilities and offers customers the flexibility to integrate to 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.

Honeywell offers legacy TPS training courses that include best practices to implement, maintain, and operate plus new TPS to Experion® migration courses to optimize your system capabilities with the new Experion LCN solution.

OVERVIEW
TPS-0004 - TPS: Fundamentals – LCN / UCN (GUS) Overview
4 Days
ILT, AT
Gain an introduction to the terminology, control philosophy and functions of the TotalPlant Solution (TPS) System consisting of a Local Control Network (LCN) and a Universal Control Network (UCN) with a High Performance Process Manager (HPM) controller. Obtain a basic understanding of the architecture and hardware of the TPS system.

IMPLEMENTATION
TPS-0005 - TPS: Fundamentals – Configuring Implementation
5 Days
ILT, AT
Learn to configure a TotalPlant Solution System that includes building an NCF as well as initializing a History Module (HM). Includes an introduction to 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, AT
Learn how to configure a TotalPlant Solution System that includes building an NCF as well as initializing a History Module (HM). Get an introduction to configuration tasks such as building a GUS button file, History Groups, basic custom displays and an Area Database.

TPS-0007 – TPS: Fundamentals – HPM/EHPM Points and CL Implementation
5 Days
ILT, AT
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, AT
Obtain a hands-on introduction 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.

MAINTENANCE
TPS-0009 - TPS: Advanced - Picture Editor Graphics Building Implementation
5 Days
ILT
Gain techniques for building sophisticated Picture Editor Custom Graphic displays using the Picture Editor function. Learn how to use values, targets, variants, conditional behavior, 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, AT
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.

INDUSTRIAL TOPICS
TPS-0014 - TPS: Fundamentals – APM/HPM Troubleshooting and Maintenance
5 Days
ILT, AT
Learn how to identify HPM hardware, troubleshoot and resolve errors, perform routine maintenance, perform preventive maintenance on the LCN, and use a TDR (Tektronix 1503C). This course is designed for personnel who already have a fully implemented TPS system and will only be responsible for maintaining the LCN.

INDT-0008 - Industrial Topics: Fundamentals – Power and Grounding Overview
4 Days
AT
Learn about AC power distribution and AC quality, Grounding, Installation of Cables and understand grounding requirements for Honeywell DCS and Safety Systems

TUV
Understanding and complying with international safety standards IEC 61508/61511 and ISA 84.01.01 is becoming increasingly critical to process industries. Honeywell’s TUV-certified Functional Safety Engineering course introduces participants to the concepts and practical application of safety standards. The course follows 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 TUV issued Functional Safety Engineer certification.

5 Days
ILT
Learn about the IEC 61508, IEC 61511 and ISA 84.01.01 standards and implement its requirements in a structured manner. Successful participants receive the TUV issued Functional Safety Engineer certification.

Courses Delivery Types: ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)
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 do some programming.

2 Days ILT
Learn how to perform On-Line Modifications (OLM), including how to modify an application, upgrade to a newer software release, and 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.

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

FSC-4501 – Fail Safe Controller: Fundamentals – Managers Overview
1 Day ILT
Learn the basic features and functions of the Fail Safe Controller (FSC) system, including operations, engineering, production, maintenance, purchasing, finance, and human resources.

IMPLEMENTATION

FSC-4508 – Fail Safe Controller: Fundamentals – Implementation
4 Days ILT
Learn to operate a Fail Safe Controller (FSC) System consisting of FSC, Stand Alone Computers, Universal Stations (US)/Global User Stations (GUS) and/or Experion Systems.

FSC-4512 – Fail Safe Controller: Advanced – Implementation
5 Days ILT
Learn programming and operating the Fail Safe Controller (FSC) System, utilizing fault-finding techniques and diagnostics, and making on-line configuration changes.

IMPLEMENTATION

FSC-4502 – Fail Safe Controller: Fundamentals – On-Line Modification Implementation
2 Days ILT
Learn about Fail Safe Controller (FSC) system’s basic programming, operation, troubleshooting techniques, diagnostics and online changes.

MAINTENANCE

FSC-4505 – Fail Safe Controller: Fundamentals – Maintenance
4 Days ILT
Learn to support the Fail Safe Controller (FSC) system with first-call maintenance.
**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.

**RTU-0001-AT – RTU2020: Fundamentals - RTU2020 (with Experion Integration) Implementation**

<table>
<thead>
<tr>
<th>Duration</th>
<th>Course Details</th>
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<tr>
<td>2 Days</td>
<td>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.</td>
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**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-AT – ControlEdge™: Fundamentals – PLC (with Experion Integration) Implementation**

<table>
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<th>Duration</th>
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<tr>
<td>2 Days</td>
<td>Learn to configure and implement ControlEdge PLC, integrate with Experion and obtain an overview of maintenance tasks.</td>
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**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**

<table>
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<th>Duration</th>
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<tr>
<td>4 Days</td>
<td>Acquire an understanding of the HC900 system architecture, configuration methods and commissioning tools.</td>
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**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**

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<th>Duration</th>
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<tr>
<td>4.5 Days</td>
<td>Learn the basic concepts and strategies needed to develop guidelines for effective and consistent planning of the RC500 system.</td>
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**RC-0002 – RC500 RTU: Fundamentals – RC500 Implementation**

<table>
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<tr>
<th>Duration</th>
<th>Course Details</th>
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<tr>
<td>4 Days</td>
<td>Receive an introduction to planning, operating, integrating and troubleshooting of RC500.</td>
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</table>

**MASTERLOGIC**

MasterLogic programmable logic controllers (PLCs) are modular, scalable and rack-based. The PLCs are available in various models to suit different applications.

**IMPLEMENTATION**

**ML-0001 – MasterLogic Fundamentals – 200R Implementation**

<table>
<thead>
<tr>
<th>Duration</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Days</td>
<td>Learn the basic concepts and strategies needed to develop guidelines for effective and consistent planning of the MasterLogic 200R (ML200R).</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Duration</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Day</td>
<td>Learn the concepts of the current cyber security landscape, the importance of securing control systems from cyber-attacks and concepts for implementing mitigation strategies.</td>
</tr>
</tbody>
</table>

**IS-0004AP – Industrial Cyber Security Workshop**

<table>
<thead>
<tr>
<th>Duration</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Days</td>
<td>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.</td>
</tr>
</tbody>
</table>

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), DPC 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 RDI’s, monitoring and troubleshooting system operations, managing archive files, and managing user privileges. Database backups are also discussed. Become a Honeywell Certified Professional (See Page 6 for more details)
ILT

UNI-5768 – Uniformance PHD: Fundamentals – Process Studio and System Administration
3 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 Companions. Become a Honeywell Certified Professional (See Page 6 for more details)
ILT

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 build, evaluate and optimize steady state process flowsheets using UniSim Design, including techniques and short-cuts for efficient use of the program to build steady state simulations of refining processes.
ILT

2 Days
Learn how to build, evaluate and optimize steady state process flowsheets using UniSim Design, including techniques and shortcuts for efficient use of the program to build steady state simulations of chemical processes.
ILT

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

PDS-400 – Process Simulation: Fundamentals – Developing Extensions for UniSim Design
4 Days
Learn about Extensibility in UniSim Design and how to build customized Kinetic Reaction and Unit Operation models for steady state simulation using Visual Basic.
ILT

PDS-0001 – Process Simulation: Fundamentals – Flare System Modelling Using UniSim Flare
5 Day
Learn how to use UniSim Flare for design, rating and debottlenecking calculations.
ILT

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

3.5 Days
Learn to implement Profit Suite R400 for the first time or to upgrade Profit Suite R205.1 to R400.
ILT

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

MAINTENANCE
4.5 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
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.

OVERVIEW

PBM 0006 - Blending & Movement: Fundamentals – LIMS Viewer Overview
5 Days
Get an overview of the LIMS Viewer architecture and components, including the ability to operate and configure LIMS Viewer, using the LIMS Viewer user interface.

OPERATION

PBM 0007 - Blending & Movement: Fundamentals – BMA Power User Operation
6 Days
Learn the BMA applications, including Inventory Monitoring, Experion Blend Controller (EBC), and Open Blend Property Controller (OBPC).

MAINTENANCE

PBM 0003 - Blending & Movement: Fundamentals – Movement Automation Maintenance
5 Days
Gain 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 0004 - 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.

PBM 0005 - Blending & Movement: Fundamentals - BusinessFLEX Experion Blend Controller (EBC) Maintenance
2 Days
Learn how to use Experion Blend Controller (EBC) in a combined lecture and lab environment.

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

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.

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 hydrotreating 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
5 Days
Improve centrifugal Compressor operations knowledge and skills. Course lessons and exercises build on basic process knowledge with practical examples using high fidelity process simulation.

Course Delivery Types: ILT – Instructor Led, AT – Asynchronous, VT – Virtual, VILT – Virtual Instructor Led, RT – Recorded (no labs)

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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