TRAINING PROGRAM

January - June 2024

Honeywell | Fire and PA/VA Solutions
SEE Region

(Bulgaria, Croatia & Eastern Adriatic, Cyprus, Greece, Hungary, Romania & Republic of Moldova)

FIRE ALARM SYSTEMS

CONNECTED LIFE SAFETY SERVICES

ASPIRATION SYSTEMS FAAST & VESDA

GAS DETECTION SYSTEMS

PUBLIC ADDRESS & VOICE ALARM SYSTEMS

HAZARD MANAGEMENT SYSTEMS

Honeywell

Content

VESDA
ASPIRATION SMOKE DETECTORS

Our Aspirating Smoke Detection (ASD) portfolio includes now a selected variety of VESDA devices and the new FAAST FLEX detector. Engineered for reliability with design flexibility, our new ASD systems are purposely built to operate in different challenging environments - from very dirty to clean and from very small to large open spaces.

Our **VESDA** offering includes the VLI detectors for industrial applications as well as the complete new VESDA-E range featuring VESDA Smoke+ which offers dramatically increased sensitivity – up to 15 times greater than previous models.

VESDA Smoke+

- Ultra-high sensitivity for greater coverage in high airflow environments
- Inherent Absolute calibration = Calibration for life
- Contamination resistance for lower TCO in wide range of applications
- Particle classification to reject nuisance alarms & enable targeted response
- Detection of very small particles for earlier detection in a range of applications

GAS DETECTION
CO AND MULTI-GAS PANELS & DETECTORS

Gas leaks and too high concentration pose a major threat to buildings, the environment and human life. From simple CO detection for parking garages to multi-gas, addressable and conventional detection for a variety of different types of gases, we can offer the suitable detectors and panels to fulfill the needs in many applications. Our products are designed for easy installation, operation, and maintenance to support quick, informed decisions in the event of a gas-related emergency.

Learn more about our CO detection system PARK for up to 5 zones perfectly designed for garages or other vehicle depots. Just a few products like panels, detector and visual signs make the design and installation easy and fast.

Furthermore, get familiar with the multi-Gas detection with conventional 8 zone panel NFG-8 and the corresponding gas detectors for dusty areas or even applications with the need of explosion proof components. Both with a wide portfolio of different gas analytics such as acetylene acetate, ammonia, butane, chlorine, carbon dioxide and many more.

Find more information about the training here

VARIODYN ONE
THE NEW INNOVATIVE PUBLIC ADDRESS AND VOICE ALARM SYSTEM

VARIODYN® ONE, designed to enhance in-building voice communications to improve response to emergency situations and public address announcements. From daily announcements to emergency response directions, VARIODYN® ONE is the next generation of the trusted VARIODYN product line, which is used in some of the largest and most complex installations across the world.

- **Improve operational effectiveness**
  VARIODYN® ONE delivers clear, clean sound characterized by low distortion and high intelligibility using digital signal processing (DSP) and premium audio components, resulting in improved communication and emergency response with highly intelligible message delivery.
- **Reduce risk and disruption**
  VARIODYN® ONE features peer to peer networking of controllers to ensure there is no single point of failure.
- **High system reliability with reduced cost**
  Shift the power where you need it – short term changes are no longer a problem. Improved system reliability allows dynamic allocation of amplifier channel to any speaker circuit, reducing overall power consumption.
- **Increase ease of integration**
  Use of common audio protocols allows VARIODYN® ONE to integrate easily with other onsite systems, such as DANTE interface, without additional hardware or handshake issues.
- **Decrease risk of safety incidents**
  with an intuitive interface to instantly deliver system status identification prompting operators to take emergency action. Certified to EN 54-16 and EN 54-4 allowing building owners to maintain highest safety standards.
- **Easy operability for complex projects**
  Highly expandable and can be scaled up or down dependent on specific business needs while reducing the real estate needed to store the PA/VA equipment. The same scalability with easy-to-use configuration tool and management software allows it to be expandable, addressing future site needs.

Find more information about the training here

CLSS
THE FUTURE OF FIRE SYSTEMS

CLSS is an innovative, all-in-one cloud platform that enables systems integrators to deliver an enhanced fire safety service, while maximizing the performance efficiencies offered by Honeywell's trusted detection and alarm systems. By harnessing the power of data, it delivers the connectivity and intelligence needed for secure, compliant, and more efficient fire system management.

- **Deep insight into maintenance portfolio**. Knowledge of device age, health and status enables more efficient maintenance planning as well as real-time monitoring of system events such as fire/fault and disablements.
- **Enables engineers to understand their next site visit before they arrive**. Detailed system status and site information can be viewed, increasing first time fix rates and maintenance performance.
- **Key panel functionality at the palm of your hand**. Technicians can disable outputs, activate sounders, reset the panel, activate LEDs to confirm location, and even update device labels using their mobile phone.
- **Device condition reports**. Available at the touch of a button to assist end-user with life cycle costs.
- **Remote consolidated view of a customers' systems**. Provides insight into progress of maintenance activities against plan with access to regulatory and non-regulatory reports at the touch of a button.
- **Quickly generate compliance reports**. Following inspection or maintenance visits reports can be generated shared and stored in the cloud for audit purposes.

Organizations across the fire safety industry are under pressure to achieve more with fewer resources whilst maintaining the highest levels of safety. CLSS supports to achieve these requirements…

For training information please contact our trainers.

INTRODUCTION

Since the very beginning of our company, the training of our partners was considered to have a great importance. Therefore, we offer various trainings which cover the basic principles, the planning & design, the commissioning, the programming, and the maintenance of our systems.

We offer our local partners the possibility of taking over the maintenance and to follow-up the business entirely. In some situations, this is worth a multiple of the initial project value!
This is one of the reasons we pay so much attention to professional trainings and partner certification – not only for our own products, but also concerning the current regulatory environment.

In our face-to-face trainings, virtual instructor-led trainings, webinars and workshops you will not only get to know the theory, but you will also gain skills with the help of applied exercises and the possibility to try out practical applications.

"*Our trainings became a strong institution in fire alarm and public address & voice alarm area, the training team and training facilities being able to offer you flexible and customized instructional sessions. We are looking forward to welcoming you at one of our trainings!*"

Carol Șamu
Sr. Tech Trainer & Support Specialist
Honeywell | Fire and PA/VA Solutions
SEE Region

TRAINING ORGANIZATION

FACE-TO-FACE (F2F) TRAININGS

Our face-to-face trainings are organized in the following training centers:

- **Romania** RO-020339 Bucharest, G.Constantinescu Str.3, Upground-BOC Office Building, Entr.A, 4th floor
- **Romania** RO-305500 Lugoj, Salcâmilor Str. 2 bis
- **Hungary** H-1139 Budapest, Petneházy u. 2-4
- **Bulgaria** BG-1528 Sofia, 64 Hristofor Columb Bul., Sofia Airport Center, Logistic Building 1
- **Serbia** location to be agreed
- **Greece** location to be agreed

as well as in other locations agreed with those interested and announced timely before the training date.

MEASURES AGAINST DISEASE SPREADING AT F2F TRAININGS

It is our responsibility to take all the possible measures to avoid the spreading of any contagious disease during our face-to-face trainings. Therefore, we commit to proceed to regular and complete cleaning of the training facilities and of the equipment and devices used during our workshops. We also recommend the use of cleaning means prepared for you in the training room (certified antibacterial tissues, hand gel etc.). Please follow the current recommendations regarding mutual protection by wearing protective masks.

Because of the requirement of keeping a safe social distance we had to significantly reduce the number of the participants per F2F session. This must be considered when registering, as limitations of the training room capacity could determine the re-scheduling of a session proposed for you. Whenever possible, please consider registering to our webinars or to use our online training modules.

After registering to our face-to-face training sessions, you will be required to follow the procedures defined for protection against disease spreading. The management of any Honeywell unit where a training session is organized has the right to cancel the training if it is considered unsafe for participants.

WEBINARS / ONLINE TRAININGS

One of our main concerns is to increase the efficiency of the seminars for our customers. We are constantly looking for new ways to organize the information transfer to minimize your effort, ensuring at the same time a higher flexibility for your training organization.

We started during midyear 2020 a series of webinars and virtual instructor-led trainings which cover several topics described in this document and will continue this type of online presence according to your request.

Also, we moved online several training modules and certification tests. You have the option to register and complete self-paced these online modules and tests before receiving the ESSER by Honeywell partner certification for your organization.

This training program includes references to the online availability of the offered training modules. Regularly check our website for updated info about the topics and dates of our webinars, as well as about the availability and the content of the online modules.

TRAINING CONTENT, SCOPE AND DELIVERY

The training courses are grouped according to product lines: fire detection systems, gas detection systems, PA/VA systems and hazard management systems. The goal, the target group and the content of each course can be found in its description.

Beside the training title and the code used for our internal evidence, the delivery mode is marked as follows:

 Face-to-face classroom training

 Virtual instructor-led training

 Self-paced online training / online test

 Workshop (F2F or online)

If multiple options are available, you can choose a specific delivery mode for the selected training module. Online option is default.

TRAINING TIME AND DATES

Trainings are scheduled in a flexible way, according to the delivery mode/location, topics and dates agreed with the Business Development Manager in charge with your Company. If not scheduled otherwise, F2F training days start at 9 am and end at approx. 3 pm local time. Instructor-led online sessions start at 9 am and end at approx. 2 pm local time.

TRAINING FEES (VALID ONLY FOR SEE REGION)

- Basic trainings for installers – free of charge (no participation certificate)
- Designer trainings – free of charge
- Workshops for commissioning and maintenance* – 40 Euro / person/ day** (with certification for 2 years)
- Fire detection trainings/ workshops for FlexES partners – according to the partnership agreement.

* Only for companies which order at least one system per year including minimum one control unit (FACP, INC, DOM). Attendance: minimum 2 persons / company. Total number or trained employees of a company per year will be agreed with the Business Development Manager responsible for the company as part of the yearly joint action plan.

** Euro 40.- excluding VAT for each training day and attendee. This does not include any accommodation costs, travel expenses etc. Discounts cannot be deducted. Training session is charged for min. 2 persons.

DEADLINES AND CANCELLATION FEES

Training sessions with costs: the attendance fee becomes due if you have the attendance confirmed and do not attend the training session. A written cancellation must be sent at least 5 working days in advance.

EXPERT TRAININGS

We are looking forward to offering you training sessions, online training modules and webinars tailored to your specific requirements. Related requests must be sent to our Sales team.

TRAININGS AND CERTIFICATION FOR OTHER HONEYWELL FIRE DETECTION SYSTEMS

Please contact our Sales team for registering to training sessions related to Honeywell Fire Detections Systems which are not covered by the current training program. Training fees may differ.

REGISTRATION

Should you be interested in our training sessions, we kindly ask you to send your request at least two weeks before the desired training session date.

In order to register to our F2F trainings, virtual instructor-led training sessions, webinars and to access the self-paced online training modules and tests please REGISTER HERE.

Since for the F2F trainings there is a restriction on the number of places, we kindly ask you to wait for our confirmation regarding the scheduled date for training.

For the online trainings you will receive a MS Teams invitation at the e-mail address mentioned in the registration form. Basic knowledge of this software is generally required for a successful participation.

CONTACT

If you have any further questions, please get in touch with the Business Development Manager responsible for your area, or contact us by phone:

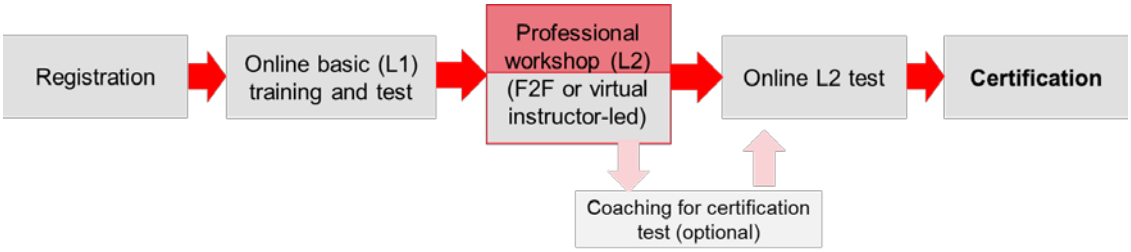
Bucureşti Tech. Support & Training Center (also for Bulgaria, Greece, Moldova):	Phone: +40 31 224 3001
Lugoj Tech. Support & Training Center (also for Bulgaria, Greece, Moldova):	Phone: +40 256 350 000
Budapest Training Center:	Phone: +36 30 628 9827
Sofia Training Center:	Phone: +359 884 063 198

or by e-mail at hls-romania@honeywell.com.

CERTIFICATION PROCESS – ESSER BY HONEYWELL FIRE DETECTION SYSTEMS

For Esser by Honeywell fire detection systems, certification is the pre-requisite for accessing our technical support. The technical support is granted only to companies and persons with valid certification.

As of beginning of 2021 we defined a certification procedure of our partners for ESSER by Honeywell Fire Alarm Systems. This process is run online in 5 steps which are to be completed sequentially:



After successfully completing this process, your company will receive a certification, valid for 2 years:


CERTIFICATE

F12_ESSER_EN_201201

OF TECHNICAL COMPETENCY

ESSER BY HONEYWELL FIRE DETECTION & ALARM SYSTEMS

We hereby confirm that the company

EXAMPLE FIRE COMPANY

City / Country Code

is an authorized partner and qualified for mounting installation, commissioning and maintenance of ESSER by Honeywell fire detection and alarm systems.
The appendix of this document is part of this certificate and indicates the above-mentioned Co' s employees who were fully trained and tested, as well as the expiry date of the individual certification of each employee.

The training and testing program of the employees included the following topics:

- Standards and regulations regarding fire protection systems
- Basic information regarding the design of the fire alarm systems
- ESSER by Honeywell fire detectors
- Special detectors
- Transmission paths of the ESSER systems
- Transponders and fire controls
- Control panels: features, hardware structure and configuration
- Programming of the control panels
- Commissioning of the ESSER by Honeywell systems
- Advanced programming functions
- Networking via essernet
- Debugging
- Maintenance procedures for ESSER by Honeywell systems

Honeywell | Fire and PA/VA Solutions

Territory BDM name
Sr. Territory Manager
Signature

Trainer name
Sr. Technical Trainer & Support Specialist
SEE Region
Signature

Certificate valid until end of .....

Honeywell Life Safety Austria GmbH. • Technologiestr. 5 • A-1120 Wien
T +43/1/6006030 • hls-austria@honeywell.com • www.hls-austria.com

APPENDIX

TO THE TECHNICAL COMPETENCY CERTIFICATE NO. F12_ESSER_EN_201201

The below listed employees of the company

EXAMPLE FIRE COMPANY

City / Country Code

attended and successfully tested at the technical training

ESSER BY HONEYWELL FIRE DETECTION & ALARM SYSTEMS

	Surname, name	Date of testing	Date of certification expiry
1.			
2.			
3.			
4.			
5.			

Honeywell | Fire and PA/VA Solutions

Certificate issued in ....., at .....

Honeywell Life Safety Austria GmbH. • Technologiestr. 5 • A-1120 Wien
T +43/1/6006030 • hls-austria@honeywell.com • www.hls-austria.com

SAMPLE

The certificate will be re-issued with updated validity date every time a certified employee takes the recertification test, or a new employee successfully completes the certification process.
The certified employees gain automatically access to the expert level self-paced training modules and workshops.

FIRE ALARM SYSTEMS

BASIC / DESIGNER TRAINING
ESSER BY HONEYWELL FIRE ALARM SYSTEMS

GOAL
This training deals with the basic issues of fire detection systems and with the presentation of the ESSER by Honeywell intelligent detectors, loop bus-technology and panels.

TARGET GROUP
Designers, specialists for installations and commissioning of fire alarm systems.

CONTENT
- Lifecycle of a FDS: planning, design, commissioning, handover, servicing, and extension/modification
- Behavior of detection of automatic fire detectors including:
- O^2T – quick and reliable detection of a wide range of smoke particles
- OT^{blue} – with its LED-technology makes the smallest aerosols particles visible
- OTG – early detection of smoldering fires helped by its integrated gas sensor
- Detectors for ex-areas of the series IQ8Quad (ATEX approved)
- Settings of the detectors via tools 8000
- Detector series IQ8Quad and special detectors in system IQ8Control
- esserbus® / esserbus® Plus loops - guidelines, regulations
- Basic issues and technical data of the esserbus® / esserbus® PLus loop
- Other esserbus® components (fire control modules, transponders)
- Hardware structure of the system IQ8Control
- Basic commissioning: programming of zones, controls, and other basic functions of the ESSER by Honeywell fire detection panels

Training codes:
P11_F_EN/RO (designer)
F11_ESSER_EN/RO (installer)

Pre-requisite:
Registration

Training dates:
On request

Training duration:
2 days

 OR 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

WORKSHOP
ESSER BY HONEYWELL FIRE ALARM SYSTEMS

GOAL
The participants learn how to handle the software tools during the commissioning and troubleshooting of the systems. Using of advanced programming functions and networking of panels via essernet®.

TARGET GROUP
Engineers and installers who attended the basic training for IQ8Control systems and who are performing the commissioning and maintenance of fire detection systems. Solid knowledge of Tools 8000 is imperative.

CONTENT
This training specializes in on-job problems in start-up, commissioning, maintenance, and correction of errors.
- Wiring recognition- scanning the loop topology with graphical display
- Check the functional capability of out- and inputs of bus nodes
- Set up detector zones and assign to bus members
- Programming of control inputs (switch on/ off sensors of zones)
- Programming of loops without panel
- Start-up of an IQ8Control fire alarm system with all bus components
- Import and export functions
- Error tracking on the esserbus® and esserbus® PLus; surge protection
- essernet®; essernet® through FO cables
- Possibilities of avoiding false alarms
- Time-delayed activation, sector programming
- Software update
- Maintenance works

Training code:
F12_ESSER_EN/RO/HU

Pre-requisite:
Basic training and L1 online test

Training dates
(re-scheduling possible, depending on the actual request):

9-10 January (Romanian)
16-17 January (English)
30-31 January (Romanian)
6-7 February (Romanian)
20-21 February (English)
5-6 March (Romanian)
19-20 March (English)
3-4 April (Romanian)
16-17 April (English)
24-24 April (Romanian)
14-15 May (Romanian)
28-29 May (English)
11-12 June (Romanian)
26-27 June (English)

Hungarian sesions on request

Training duration:
2 days

 OR 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

NOTE: Trainings and workshops for the FlexES partners (training codes F21_ESSER_EN and F22_ESSER_EN) are organized according to the partnership agreements.

BASIC TRAINING AND L1 ONLINE TEST FOR CERTIFICATION ESSER BY HONEYWELL FIRE ALARM SYSTEMS

GOAL
This self-paced training and test deals with the basic issues of a fire detection systems. It is a prerequisite for accessing the instructor-led classroom (virtual or F2F) in the certification process. For passing the test a minimum of 70% of the 30 questions must be correctly answered.

TARGET GROUP
Specialists for installations and commissioning of fire alarm systems.

CONTENT
Presentation and test modules for:
- General regulations applicable to fire detection and alarm systems
- ESSER by Honeywell fire detectors
- Special detectors
- The esserbus® loop
- esserbus® transponders
- IQ8control fire alarm control panels
- Fire controls
- Basic panel programming
- esservet®
- Maintenance of ESSER by Honeywell systems

Training code:
F11_ESSER_EN/RO

Pre-requisite:
Registration

Training dates:
On demand

Training duration:
Self-paced

ONLINE L2 TEST FOR CERTIFICATION ESSER BY HONEYWELL FIRE ALARM SYSTEMS

GOAL
This self-paced test is the final step of the certification ESSER by Honeywell partner certification process for fire detection systems for passing the test a minimum of 70% of the 40 questions must be correctly answered.

TARGET GROUP
Specialists for installation, commissioning, and maintenance of fire alarm systems.

CONTENT
Test modules for:
- General regulations applicable to fire detection and alarm systems
- ESSER by Honeywell fire detectors
- Special detectors
- The esserbus® loop
- esserbus® transponders
- IQ8control fire alarm control panels
- Fire controls
- IQ8Control programming options
- esservet®
- Maintenance of ESSER by Honeywell systems

Training code:
F12_ESSER_EN/RO TEST

Pre-requisite:
Fire Alarm Systems workshop

Training dates:
On demand

Training duration:
Self-paced

WORKSHOP
ESSER BY HONEYWELL ALARM DEVICES & WIRELESS DEVICES

GOAL
The participants will learn how to
- design the esserbus® PLus components, to define alarm signals, to set synchronization and start-up the components.
- use wireless components in the system design according valid specifications and
- how to commission the detectors

TARGET GROUP
Specialists who already attended system IQ8Control trainings and perform commissioning and maintenance. Solid knowledge of Tools 8000 is imperative.

CONTENT
This course consists of three parts: two self-paced online modules presenting the alarm devices and the wireless equipment, both concluded with a short knowledge test and the F2F/online workshop. The content is focused on the design and flexible programming of the features specific to esserbus® -PLus and wireless devices.
- Design of alarm devices (audible & optical)
- EN 54-3 and EN 54-23 compliancy
- Introduction of all addressable alarm devices for esserbus®-PLus
- Start-up of the esserbus®-PLus components with Tools 8000
- Activation of esserbus®-PLus components
- Load factor of addressable alarm devices
- Conventional alarm devices
- Other signalization devices
- Introduction of the wireless components
- Design using wireless detectors
- Measuring the radio signal strength using Tools 8000
- Start-up of wireless transponder, bases, and detectors

Training code:
F41_ESSER_EN/RO

Pre-requisite:
L2 certification

Training dates:
On request / On demand

Training duration:
Self-paced overview + 1 day workshop

 AND 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

WORKSHOP
ESSER BY HONEYWELL EX AND INDUSTRIAL FIRE DETECTORS

GOAL
The participants will learn about the features and specific issues regarding the installation of the ESSER by Honeywell fire detection devices for Ex and industrial areas.

TARGET GROUP
Specialists who already attended system IQ8Control trainings and perform commissioning and maintenance. Knowledge of Tools 8000 is imperative.

CONTENT
This course is focused on the presentation of the Ex-zones, the classification, features, and specific installation issues of the devices which can be used in such areas. Specific issues of the fire protection in industrial areas are included in the 2nd section of this course.
It consists of two parts: a self-paced online module with general information regarding ASDs concluded with a short test and the F2F/online workshop.

Training code:
F42_ESSER_EN/RO

Pre-requisite:
L2 certification

Training dates:
On request / On demand

Training duration:
Self-paced overview + 1 day workshop

 AND 

WORKSHOP
FAAST FLEX ASPIRATION SMOKE DETECTORS

GOAL
The participants can design and commission a FAAST LT-200 smoke aspiration system.

TARGET GROUP
Specialists for design and commissioning of aspiration smoke systems.

CONTENT
This course consists of two parts: a self-paced online module with general information regarding ASDs concluded with a short test and the F2F/online workshop.

Basic information about ASD's and how to design them within the prescriptions of EN 54-20.
- Main features of an ASD
- ASD applications
- The Aspiration pipe system
- Detection optimization
- Air flows around pipes
- EN 54-20 design of ASD
- Pipes constrction and sampling holes
- Special cases of protection (ventilation ducts, cabinets, suspended ceiling, raised floor)
- Pipe system installation in harsh environment
- Accessories for ASD
- System maintenance / pipe cleaning
- ASD product range: VESDA and FAAST

Overview of the FAAST FLEX ASDs
- Physical unit installation and wiring
- Pipe layout according to EN 54-20 with Aspire FAAST FLEX software
- Operation modes
- Integration in ESSER by Honeywell Fire Alarm Systems
- Troubleshooting and maintenance

Training code:
ASD11_FAAST_EN/RO

Pre-requisite:
L2 certification

Training dates:
On request

Training duration:
Self-paced overview + 1 day workshop

 AND 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

WORKSHOP
VESDA ASPIRATION SMOKE DETECTORS

GOAL
The participants can design and commission a VESDA smoke aspirating system.

TARGET GROUP
Specialists for design and commissioning of aspiration smoke systems

CONTENT
This course consists of two parts: a self-paced online module with general information regarding ASDs concluded with a short test and the F2F/online workshop.

Basic information about ASD's and how to design them within the prescriptions of EN 54-20.
- Main features of an ASD
- ASD applications
- The Aspiration pipe system
- Detection optimization
- Air flows around pipes
- EN 54-20 design of ASD
- Pipes constrction and sampling holes
- Special cases of protection (ventilation ducts, cabinets, suspended ceiling, raised floor)
- Pipe system installation in harsh environment
- Accessories for ASD
- System maintenance / pipe cleaning
- ASD product range: VESDA and FAAST

VESDA overview:
- Structure of a high-sensitive aspiration system
- Area of application
- VESDA ASD range of products
- Design of pipe structure using ASPIRE
- Basic configuration with ASPIRE/VLC and parameter adjustments
- Connection to the fire alarm system IQ8Control / FlexES Control

Training code:
ASD21_VESDA_EN/RO

Pre-requisite:
L2 certification

Training dates:
On request

Training duration:
Self-paced overview + 1 day workshop

 AND 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

WORKSHOP
LINEAR HEAT DETECTOR DTS

GOAL
The participants understand the measurement principle of the linear heat detector DTS, and they can start up and commissioning this fiber optic linear heat detector according EN 54-22.

TARGET GROUP
Designers, installers, and maintenance specialists for fire alarm systems.

CONTENT
This course consists of two parts: a self-paced online module with general information regarding LHDs concluded with a short test and the F2F/online workshop.

After reviewing the general information about LHDs, the workshop will focus on fiber optic linear heat detectors - also called DTS (Distributed Temperature Sensing) - starting from the measurement principle via installation information up to the instrument parameterization according to EN 54-22.

LHD systems overview:
- LHD systems classification
- Typical applications for LHS
- Standards and standard-according configuration
- Non-resettable and resettable LHDs

DTS LHD:
- Measurement principle (Raman-Optical Time-Domain-Reflectometry)
- Setting up the DTS System
- Terminating the sensor cable
- Connecting to the output relays and input lines
- Making measurements
- Instrument parameterization according EN 54-5 and EN 54-22
- Zones and alarms
- Zones to indicate fiber breaks, alarm indications and triggering
- Fire size and propagation direction
- Final examination and performance tests
- Checklist installation sensor cable
- Checklist zone/ alarm (relay parameterization)

Training code:
LHD21_DTS_EN/RO

Pre-requisite:
L2 certification

Training dates:
On request

Training duration:
Self-paced overview + 1 day workshop

 AND 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

WORKSHOP
LINEAR HEAT DETECTOR PROREACT ANALOGUE

GOAL
The participants understand the measurement principle of the linear heat detector ProReact EN Analogue, and they can start up and commissioning this linear heat detector according EN 54-22.

TARGET GROUP
Designers, installers, and maintenance specialists for fire alarm systems.

CONTENT
This course consists of two parts: a self-paced online module with general information regarding LHDs concluded with a short test and the F2F/online workshop.
After reviewing the general information about LHDs, the workshop will focus on the PACC linear heat detectors starting from the measurement principle via installation information up to the parameterization according to EN 54-22.

LHD systems overview:
- LHD systems classification
- Typical applications for LHS
- Standards and standard-according configuration
- Non-resettable and resettable LHDs

LHD-PACC:
- ProReact Analogue sensor cable – codification
- The Composite Control Unit
- Principle of resistive temperature monitoring
- Adjustment of the alarm threshold
- Temperature rate-of-rise detection
- Typical installation

Training code:
LHD11_PACC_EN/RO

Pre-requisite:
L2 certification

Training dates:
On request

Training duration:
Self-paced overview + 1 day workshop

 AND 

WORKSHOP
OSID LINEAR SMOKE DETECTORS

GOAL
The participants can design fire detection with beam detectors and can commission an OSID linear smoke detector.

TARGET GROUP
Specialists for design and commissioning of fire detection systems

CONTENT
This course consists of two parts: a self-paced online module presenting an overview of LSDs and concluded with a short test and the F2F/online workshop.
The workshop is aiming for a basic understanding of linear smoke detectors, how to design them according to EN 54-12 and learning the installation and comissioning of the OSID detectors.
- Principle of operation of traditional beam detectors
- Challenges with traditional beam detectors
- OSID – Principle of Operation
- OSID product range and accessories
- OSID-R reflective detector
- Area of application
- Connection to the fire alarm system IQ8Control / FlexES Control

Training code:
LSD11_OSID_EN/RO

Pre-requisite:
L2 certification

Training dates:
On request / On demand

Training duration:
Self-paced overview + 1 day workshop

 AND 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

WORKSHOP
ESSER BY HONEYWELL INTEGRATED FIRE DAMPER CONTROL

GOAL
The participants learn the principles to control and monitor fire and smoke dampers with the ESSER by Honeywell fire alarm systems, based on the apllication for ventilation ducts. They get to know how about installation guidelines, software tools and commissioning the system.

TARGET GROUP
Specialists for installation, commissioning and project planning of fire and smoke damper control systems. Solid knowledge of Tools 8000 is imperative.

CONTENT
This workshop deals with the functionalities and hardware components for controlling and monitoring fire and smoke dampers with the fire alarm systems IQ8Control and FlexES Control.

- System's hardware structure
- Control and relay transponders (FCT, 12 Relais, …) overwies
- Parameterization of panels and loop modules with Tools 8000
- Wiring recognition – Read in the loop topology with graphical illustration
- Programming of damper run time
- Troubleshooting at short circuit, wire break and earth fault on esserbus® / esserbus®-PLus
- Testing of the output and input functionality of loop modules
- Control of e.g. smoke extraction fans
- Security switch off of HVAC components
- Implementation of the fire control matrix in programming
- Creation of dependencies via conditions
- Controlling via essernet®
- Maintenance

Training code:
F51_ESSER_EN/RO

Pre-requisite:
Basic training and L1 online test

Training dates:
On request / On demand

Training duration:
Self-paced overview + 1 day workshop

Please note:
For the hands-on exercises, you need a notebook with the following requirements:

- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

WORKSHOP
ESSERNET

GOAL
The participants will learn about the details of the essernet communication and troubleshooting.

TARGET GROUP
Specialists who already attended system IQ8Control trainings and perform commissioning and maintenance. Solid knowledge of Tools 8000 is imperative.

CONTENT
This course consists of two parts: a self-paced online module presenting details regarding the communication, installation and troubleshooting of an essernet network, concluded with a short test and the F2F/online workshop.
It is focused on the advanced information regarding essernet:

- Connect panels in essernet
- Define hierarchical right within the network
- Check the transmission quality: status line and significance of the essernet diagnostic menu
- Use FO cables for essernet segments
- Advanced troubleshooting

Training code:
F13_ESSER_EN/RO

Pre-requisite:
L2 certification

Training dates:
On request / On demand

Training duration:
Self-paced overview + 1 day workshop


AND


Please note:
For the hands-on exercises, you need a notebook with the following requirements:

- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

WORKSHOP
FIRE EXTINGUISHING PANEL RP1r-SUPRA

GOAL
The participants will be able to install and commission the extinguishing panel RP1r-Supra.

TARGET GROUP
Designers, installers and maintenance specialists for fire alarm and suppression systems.

CONTENT
This course consists of two parts: a self-paced online module presenting general information and concluded with a short test and the F2F/online workshop.

You will receive general information about automatic extinguishing systems and their construction and then we will focus on the hardware structure of the RP1r extinguishing panel and its peripherals.

RP1r-Supra overview:
- Panel versions
- Peripherals
- Interfaces to other systems
- Options for configuration and event log reading
- Description of inputs and outputs of the panel
- The user interface
- Access levels and operating modes

Programming:
- Extinguishing options
- Zones programming
- Options for sounders
- Line options
- Special options

Training code:
F32_ESSER_EN/RO

Pre-requisite:
Basic training and L1 online test

Training dates:
On request

Training duration:
Self-paced overview + 1 day workshop

 AND 

HONEYWELL MORLEY IAS AUTHORIZED DISTRIBUTORS TRAINING
MORLEY IAS MAX / PLUS / LITE FIRE ALARM SYSTEMS

GOAL
This training deals with the basic issues of fire detection systems and with the presentation of Honeywell's fire detection systems based on Morley IAS Max control panels.

TARGET GROUP
Tech support specialists and trainers of the Honeywell Morley IAS authorized distribution companies.

CONTENT
This course consists of two parts: a self-paced online module presenting general information and concluded with a test and the F2F/online workshop.

- Structure and lifecycle of a FDS: planning, design, commissioning, handover, servicing and extension/modification
- Product standards and codes of practice
- Automatic fire detectors – best-choice options and avoiding false & deceptive alarms
- Peripherals and interfacing with external input/output devices
- Panel variants and system features
- Mechanical overview of the panels; mechanical data
- Boards assembly & electrical overview; boards setup & connections
- Accessories
- Operation – front panel display & operation elements
- Basic programming – menu structure & commissioning
- Control-by event programming
- PK tool overview
- Networking: configuration options , network installation, network menu operation
- Basic maintenance operations

Training code:
F11_MORLEY_EN/RO

Pre-requisite:
Registration

Training dates:
On request

Training duration:
2 days

 AND 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:

- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

CONNECTED
LIFE SAFETY SERVICES (CLSS)

WORKSHOP
CONNECTED LIFE SAFETY SERVICES

GOAL

The participants
- get to know the specific issues of the fire detection systems associated remote services
- are presented the software and the services offered by CLSS

TARGET GROUP

Designers, commissioning, and maintenance specialists
for fire detection systems.

CONTENT
- General overview of the CLSS platform
- Main functions of the desktop application
- Functions of the mobile application
- How to connect the CLSS gateway to the fire detection system
  - FlexES Control panels: live events and controls
  - FlexES Control panels: service info
  - IQ8Control panels: live events and controls
  - IQ8Control panels: service info
- The onboarding process
- Site, location and buildings definition
- Users (admins, technicians, facility managers) definition
- Gateway association to panels
- Testing live events
- Uploading service data
- Maintenance process and report generation

Training codes:
F100_CLSS_EN/RO

Pre-requisite:
Registration

Training dates:
On request

Training duration:
1 day

GAS DETECTION SYSTEMS

BASIC / DESIGNER TRAINING
GAS DETECTION SYSTEMS

GOAL
The participants
- get to know the specific issues of the gas detection systems
- learn the basics in the design of gas detection systems
- are presented the product range and main features of the gas detection products

TARGET GROUP
Designers, commissioning, and maintenance specialists
for gas detection systems.

CONTENT
- Main applications of the gas detection systems
- Specific terms in gas detection (concentration, LEL etc.)
- How to choose the right gas detection system
    - What to detect (gas types and classification)
    - How to detect (sensor types)
    - Where to detect (places & safety requirements)
- Detectors installation, location
- Calibration, inspection, and maintenance of gas detection systems
    - Checklist example

Training codes:
G10_GAS_EN/RO

Pre-requisite:
Registration

Training dates:
On request

Training duration:
1 day

 OR 

PUBLIC ADDRESS & VOICE ALARM SYSTEMS

BASIC / DESIGNER TRAINING
PUBLIC ADDRESS & VOICE ALARM SYSTEMS

GOAL
The participants
- get to know the electro acoustical terms
- learn the basics in designing according to regulations
- know how to design and project a voice alarm system

TARGET GROUP
Designers, commissioning, and maintenance specialists for voice alarm systems.

CONTENT
- Physical elements and units of electro acoustic
- Criteria of sound propagation (reflections, absorption, ...)
- Design according to CEN/TS 54-32 and other international regulations
- Technical terms, goals, types
- Definitions and explanations
- Voice alarm system requirements
- Speaker basics, types, and planning
- Circuits - installation principles
- PSUs - requirements
- Operation, maintenance, and service

Training codes:
P11_VA_EN/RO (Designer)
VA11_EN/RO (installer)

Pre-requisite:
Registration

Training dates:
On request

Training duration:
1 day

 OR 

SYSTEM WORKSHOP
PA/VA SYSTEM VARIODYN ONE

GOAL
The participants
- will get an overview on VARIODYN One system
- know how to design, install, and configure the VARIODYN One PAVA system

TARGET GROUP
Designers, installation, and commissioning specialists for voice alarm systems.

CONTENT
- Installation and cabling of the VARIODYN One system
- Getting knowledge and installation of the configuration software
- First commissioning (e.g., setting IP-addresses)
- Basics of system configuration
- Establishing the hardware interconnection
- Important module settings
- Defining functionality (e.g., announcements, music, or alarms)
- Audio file upload
- Controlling from FACP (fire alarm control panel)
- Getting knowledge of system monitoring, interpreting messages
- Exercise configuration

Training code:
VA31_EN/RO

Pre-requisite:
Basic training PAVA

Training dates:
On request

Training duration:
1 day

 OR 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
- At least 4 GB RAM
- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

SYSTEM WORKSHOP
PA/VA SYSTEM VARIODYN D1 (INCL. COMPRIO)

GOAL
The participants
- will get an overview on VARIODYN D1 and Comprio system
- know how to design, install, and configure the VARIODYN D1 and Comprio systems

TARGET GROUP
Designers, installation, and commissioning specialists for voice alarm systems.

CONTENT
- Installation and cabling of the VARIODYN D1 and Comprio system
- Getting knowledge and installation of software tools
- First commissioning (e.g., setting IP-addresses)
- Basics of system configuration
- Establishing the hardware interconnection
- Important module settings
- Defining functionality (e.g., announcements, music, or alarms)
- Controlling from FCP (fire control panel)
- Audio file upload
- Getting knowledge of system monitoring, interpreting messages
- Exercise configuration
- Maintenance hints and troubleshooting according to regulations

Training code:
VA12_EN/RO

Pre-requisite:
Basic training PAVA

Training dates:
On request

Training duration:
1 day

 OR 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
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- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

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SYSTEM WORKSHOP
PA/VA SYSTEM INTEVIO

GOAL
The participants
- will get an overview on INTEVIO system
- know how to design, install, and configure the INTEVIO

TARGET GROUP
Designers, installation, and commissioning specialists for voice alarm systems.

CONTENT
- Installation and cabling of the INTEVIO system
- Getting knowledge and installation of software tools
- First commissioning (e.g., setting IP-addresses)
- Basics of system configuration
- Establishing the hardware interconnection
- Important module settings
- Defining functionality (e.g., announcements, music, or alarms)
- Audio file upload
- Getting knowledge of system monitoring, interpreting messages
- Exercise configuration
- Maintenance hints and troubleshooting according to regulations

Training code:
VA21_EN/RO

Pre-requisite:
Basic training PAVA

Training dates:
On request / On demand

Training duration:
1 day / Self-paced

 OR  OR 

Please note:
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- USB interface
- 2-button mouse for navigation

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HAZARD MANAGEMENT SYSTEMS

BASIC WORKSHOP WINMAGplus

GOAL
The participants learn about the possibilities of management software WINMAG Plus and create a basic configuration.

TARGET GROUP
Installers and integrators
(Basic knowledge of Windows environment is required)

CONTENT
- WINMAGplus Overview
- Features
- Networks and connections
- Possibility of importing graphics
- Creating data points and alarm types
- Hands-on exercices with WINMAGplus
- Introduction and practical exercises with SIAS
- Creating a practical example on the PC

Training code:
MS11_WINMAG_EN/RO

Pre-requisite:
Registration

Training dates:
On request

Training duration:
1 day

 OR 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
- Microsoft Windows © 7 or 10 (32- or 64-Bit versions, no Home Edition)
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- USB interface
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PROFESSIONAL WORKSHOP WINMAGplus

GOAL
Based on the knowledge of the basic workshop you will learn about the internal of the WINMAGplus software. Practical exercises complete the workshop.

TARGET GROUP
Installers and integrators with WINMAGplus experience
(Basic knowledge of Windows environment is required)

CONTENT
- The new WINMAGplus-performance features
- Details regarding the WINMAGplus-commands
- Application of controls (control elements)
- Possibilities of importing graphics
- Connecting components through the alarm event log
- Deepen the SIAS-Syntax based on practical exercises
- Structure of the WINMAGplus database
- Configuration of data points and alarm types
- Creating your own symbols
- Tips and tricks
- Establishing applicable technological WINMAGplus solutions
- Client server configuration, Redundancy

Training code:
MS12_WINMAG_EN/RO

Pre-requisite:
Basic workshop WINMAGplus

Training dates:
On request

Training duration:
1 day

 OR 

Please note:
For the hands-on exercises, you need a notebook with the following requirements:
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- Approx. 10 GB free space on the hard drive
- XGA-graphics board with 1 GB video memory
- USB interface
- 2-button mouse for navigation

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