

TRAINING PROGRAM

July - December 2021

**Honeywell | Fire and PA/VA Solutions
SEE Region**

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

FIRE ALARM SYSTEMS

ASPIRATION SYSTEMS FFAST & VESDA

PUBLIC ADDRESS & VOICE ALARM SYSTEMS

HAZARD MANAGEMENT SYSTEM

The background of the entire page is an abstract, low-angle, upward-looking view of a complex, multi-layered structure made of translucent blue cubes and rectangular prisms. The structure resembles a modern architectural design or a digital data visualization, with many overlapping planes and sharp edges. The lighting is bright, creating a sense of depth and transparency.

Honeywell

Contents

INTRODUCTION.....	5
TRAINING ORGANIZATION.....	6
CERTIFICATION PROCESS	8
FIRE ALARM SYSTEMS	9
BASIC / DESIGNER TRAINING	10
WORKSHOP ESSER FIRE ALARM SYSTEMS	10
BASIC TRAINING AND L1 ONLINE TEST FOR CERTIFICATION	11
FINAL ONLINE L2 TEST FOR CERTIFICATION	11
WORKSHOP ALARM DEVICES & WIRELESS DEVICES	12
WORKSHOP FFAST LT-200 ASPIRATION SMOKE DETECTORS	13
WORKSHOP VESDA ASPIRATION SMOKE DETECTORS	14
WORKSHOP LINEAR HEAT DETECTOR (LHD) DTS.....	15
WORKSHOP LINEAR HEAT DETECTOR (LHD) PROREACT ANALOGUE	16
WORKSHOP OSID LINEAR SMOKE DETECTORS (LSD).....	16
WORKSHOP INTEGRATED FIRE DAMPER CONTROL.....	17
WORKSHOP FIRE EXTINGUISHING PANEL RP1r-SUPRA.....	18
PUBLIC ADDRESS & VOICE ALARM SYSTEMS	19
BASIC / DESIGNER TRAINING PUBLIC ADDRESS & VOICE ALARM SYSTEMS	20
SYSTEM WORKSHOP PA/VA SYSTEM VARIODYN D1 (INCL. COMPRIO)	20
SYSTEM WORKSHOP PA/VA SYSTEM INTEVIO	21
HAZARD MANAGEMENT SYSTEMS.....	22
BASIC WORKSHOP WINMAGplus	23
PROFESSIONAL WORKSHOP WINMAGplus	23
TRAINING MAIN LOCATIONS.....	24

VESDA ASPIRATION SMOKE DETECTORS



We extended our Aspirating Smoke Detection (ASD) portfolio with a selected variety of VESDA devices. 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

INTEVIO

INTEGRATED PUBLIC ADDRESS AND VOICE ALARM SYSTEM



INTEVIO is a compact, integrated public address, and voice alarm system that adapts to your needs. Delivering enhanced safety, operational efficiency and user experience, **INTEVIO** offers the benefits of a state of the art PA/VA system in one simple to use, cost effective system.

INTEVIO's dual channel audio matrix has a total capacity of 128 loudspeaker zones, achieving high quality sound reproduction performance. With live paging, digital volume control, automatic triggering, dynamic power amplifier backup and comprehensive supervision now **INTEVIO** makes PA/VA simple.

Integrated Wiring

An optimized internal wiring layout within this integrated system makes installation and wiring simple and cost-efficient.

Centralized Monitoring

Faults can be quickly identified and resolved by conveniently accessing trouble and log details through the screen of the INTEVIO controller.



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. Our training team and training facilities offer you flexible and customized workshops. I am looking forward to welcoming you at one of our trainings!"

Kind regards,

Carol Şamu
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:

- **Austria** A-1120 Vienna, Technologiestr. 5, 3rd floor;
- **Romania** RO-020339 Bucharest, G.Constantinescu Str.3, Upground-BOC Office Building, Entr.A, 4th floor;
- **Romania** RO-305500 Lugoj, Salcânilor Str. 2 bis;
- **Hungary** H-1139 Budapest, Petneházy u. 2-4;
- **Croatia** HR-10000 Zagreb, Av. V. Holjevca 40;
- **Bulgaria** 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 recommend also 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 reduce significantly 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.

Before entering the training room, you will be requested to fill in a form with a few questions regarding your health status and potential contamination situations to which you were exposed. A temperature measurement will be done with a contactless device. The precautions taken are subject to change based on local government regulations.

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 in the same time for you a higher health safety level.

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. Check regularly 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 modules are grouped according to product lines: fire detection systems, PAVA systems and hazard management systems. Each module's goal, target group and content 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 / 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. Training days start at 9:00 am and end at approx. 4:00 pm.

COSTS

The training costs are as follows:

- 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);
- 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, DOM). Attendance: minimum 2 persons / company. Total number of 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.

DEADLINES AND CANCELLATION FEES

Training sessions with costs: the attendance fee becomes due if you 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.

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:

București Tech. Support & Training Center (also for Bulgaria, Greece, Moldova): Phone: +40 (0)31 224 3001

Lugoj Tech. Support & Training Center (also for Bulgaria, Greece, Moldova): Phone: +40 (0)256 307 501

Budapest Training Center: Phone: +36 30 723 2709

Zagreb Training Center: Phone: +385 (0)91 153 3829

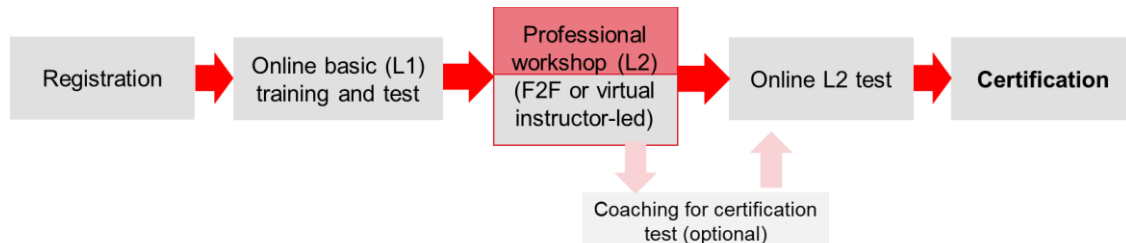
or by e-mail at hls-romania@honeywell.com.



CERTIFICATION PROCESS

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

CERTIFICATE

OF TECHNICAL COMPETENCY

F12_ESSER_EN_201201

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 to 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: the esserbus
- 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 • Technologiesstr. 5 • A-1120 Wien
T +43/1/8006030 • hls-austria@honeywell.com • www.hls-austria.com

CERTIFICATE

OF TECHNICAL COMPETENCY

F12_ESSER_EN_201201

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 were successfully tested at the technical training
ESSER BY HONEYWELL FIRE DETECTION & ALARM SYSTEMS

No.	Surname	Date of testing	Date of certification expiry
1.			
2.			
3.			
4.			
5.			

Certificate issued in at



Honeywell Life Safety Austria GmbH • Technologiesstr. 5 • A-1120 Wien
T +43/1/8006030 • hls-austria@honeywell.com • www.hls-austria.com

The certificate will be re-issued with updated validity date every time a certified employee re-takes the final (L2) test or a new employee completes successfully the certification process.





FIRE ALARM SYSTEMS

BASIC / DESIGNER TRAINING ESSER BY HONEYWELL FIRE ALARM SYSTEMS

<p>GOAL</p> <p>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.</p> <p>TARGET GROUP</p> <p>Designers, specialists for installations and commissioning of fire alarm systems.</p> <p>CONTENT</p> <ul style="list-style-type: none"> - Lifecycle of a FDS: planning, design, commissioning, handover, servicing and extension/modification - Behavior of detection of automatic fire detectors including: <ul style="list-style-type: none"> - O²T – 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 	<p>Training code: P11_F_EN/RO (designer) F11_ESSER_EN/RO (installer)</p> <p>Pre-requisite: Registration</p> <p>Training dates: On request</p> <p>Training duration: 2 days</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Please note: For the hands-on exercises, you need a notebook with the following requirements:</p> <ul style="list-style-type: none"> • 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 <p><small>Windows © is a registered trademark of Microsoft Corporation</small></p>
---	--


WORKSHOP ESSER BY HONEYWELL FIRE ALARM SYSTEMS

<p>GOAL</p> <p>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®.</p> <p>TARGET GROUP</p> <p>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.</p> <p>CONTENT</p> <p>This training specializes in on-job problems in start-up, commissioning, maintenance and correction of errors.</p> <ul style="list-style-type: none"> - 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 	<p>Training code: F12_ESSER_EN/RO</p> <p>Pre-requisite: Basic training and L1 online test</p> <p>Training dates: On request</p> <p>Training duration: 2 days</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Please note: For the hands-on exercises, you need a notebook with the following requirements:</p> <ul style="list-style-type: none"> • 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 <p><small>Windows © is a registered trademark of Microsoft Corporation</small></p>
---	--


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

<p>GOAL</p> <p>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.</p> <p>TARGET GROUP</p> <p>Specialists for installations and commissioning of fire alarm systems.</p> <p>CONTENT</p> <p>Presentation and test modules for:</p> <ul style="list-style-type: none"> - 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 - essernet® - Maintenance of ESSER by Honeywell systems 	<p>Training code:</p> <p>F11_ESSER_EN/RO</p>
	<p>Pre-requisite:</p> <p>Registration</p>
	<p>Training dates:</p> <p>On demand</p>
	<p>Training duration:</p> <p>Self-paced</p>
	<div>  </div>

FINAL ONLINE L2 TEST FOR CERTIFICATION ESSER BY HONEYWELL FIRE ALARM SYSTEMS

<p>GOAL</p> <p>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.</p> <p>TARGET GROUP</p> <p>Specialists for installation, commissioning and maintenance of fire alarm systems.</p> <p>CONTENT</p> <p>Test modules for:</p> <ul style="list-style-type: none"> - 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 - essernet® - Maintenance of ESSER by Honeywell systems 	<p>Training code:</p> <p>F12_ESSER_EN/RO TEST</p>
	<p>Pre-requisite:</p> <p>Fire Alarm Systems workshop</p>
	<p>Training dates:</p> <p>On demand</p>
	<p>Training duration:</p> <p>Self-paced</p>
	<div>  </div>



WORKSHOP ALARM DEVICES & WIRELESS DEVICES

GOAL

The participants will learn how to...

- design the esserbus® PPlus 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 maintenances. Solid knowledge of Tools 8000 is imperative.

CONTENT

In this course is focused on the design and flexible programming of the features specific to esserbus® -PPlus and wireless devices. It consists of two parts: an online module online with general information concluded with a short test and the F2F/online workshop.

- Design of alarm devices (audible & optical)
- EN 54-3 and EN 54-23 compliancy
- Introduction of all addressable alarm devices for esserbus®-PPlus
- Start-up of the esserbus®-PPlus components with Tools 8000
- Activation of esserbus®-PPlus 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:

Basic training and L1 online test

Training dates:

On request / On demand

Training duration:

1 day / Self-paced



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

Windows © is a registered trademark of Microsoft Corporation

WORKSHOP

FAAST LT-200 ASPIRATION SMOKE DETECTORS

<p>GOAL The participants can design and commission a FAAST LT-200 smoke aspiration system.</p> <p>TARGET GROUP Specialists for design and commissioning of aspiration smoke systems.</p> <p>CONTENT This course consists of two parts: an online module online with general information regarding ASDs concluded with a short test and the F2F/online workshop.</p> <p>Basic information about ASD's and how to design them within the prescriptions of EN 54-20.</p> <ul style="list-style-type: none"> - Main features of an ASD - ASD applications - The Aspiration pipe system - Detection optimization - Air flows around pipes - EN 54-20 design of ASD - Pipes construction 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 <p>Overview of the FAAST LT-200 ASD</p> <ul style="list-style-type: none"> - Physical unit installation and wiring - Pipe layout according to EN54-20 with PipeIQ software - - Operation modes - Integration in ESSER by Honeywell Fire Alarm System - Troubleshooting and maintenance - Connection to the fire alarm system IQ8Control / FlexES Control 	<p>Training code: ASD11_FAAST_EN/RO</p>
	<p>Pre-requisite: Basic training and L1 online test</p>
	<p>Training dates: On request</p>
	<p>Training duration: 1 day</p>
	<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>Please note: For the hands-on exercises, you need a notebook with the following requirements:</p> <ul style="list-style-type: none"> • 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 <p><small>Windows © is a registered trademark of Microsoft Corporation</small></p>



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: an online module online 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 construction 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 FFAST

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:

Basic training and L1 online test

Training dates:

On request

Training duration:

1 day



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

Windows © is a registered trademark of Microsoft Corporation

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: an online module online 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:

Basic training and L1 online test

Training dates:

On request

Training duration:

1 day





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

Windows © is a registered trademark of Microsoft Corporation

WORKSHOP LINEAR HEAT DETECTOR PROREACT ANALOGUE

<p>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 to EN 54-22.</p> <p>TARGET GROUP Designers, installers and maintenance specialists for fire alarm systems.</p> <p>CONTENT This course consists of two parts: an online module online 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.</p> <p>LHD systems overview:</p> <ul style="list-style-type: none"> - LHD systems classification - Typical applications for LHS - Standards and standard-according configuration - Non-resettable and resettable LHDs <p>LHD-PACC:</p> <ul style="list-style-type: none"> - 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 	<p>Training code: LHD11_PACC_EN/RO</p> <p>Pre-requisite: Basic training and L1 online test</p> <p>Training dates: On request</p> <p>Training duration: 1 day</p> <div>   </div>
---	---

WORKSHOP OSID LINEAR SMOKE DETECTORS

<p>GOAL The participants can design fire detection with beam detectors and can commission an OSID linear smoke detector.</p> <p>TARGET GROUP Specialists for design and commissioning of fire detection systems</p> <p>CONTENT This course consists of two parts: an online module online with general information regarding LSDs 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 commissioning of the OSID detectors.</p> <ul style="list-style-type: none"> - 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 	<p>Training code: LSD11_OSID_EN/RO</p> <p>Pre-requisite: Basic training and L1 online test</p> <p>Training dates: On request / On demand</p> <p>Training duration: 1 day / Self-paced</p> <div>   </div> <p>Please note: For the hands-on exercises, you need a notebook with the following requirements:</p> <ul style="list-style-type: none"> • 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 <p><small>Windows © is a registered trademark of Microsoft Corporation</small></p>
---	---



WORKSHOP 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 application 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 training 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, ...) overviews
- Commissioning of the loops esserbus® and esserbus® PLus
- Parameterizing 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® und esserbus® PLus
- Testing of the output and input functionality of loop modules
- Creation of detector zones and the assignment of loop modules
- Editing of detector and controls
- Control of e.g. smoke extraction fans
- Security switch off of normal ventilation components
- Implementation of the fire control matrix in programming
- Creation of dependencies via conditions
- Linking-up of panels via essernet®
- Maintenance

Training code:

F51_ESSER_EN/RO

Pre-requisite:

Professional workshop

Training dates:

On request / On demand

Training duration:

1 day / Self-paced



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

Windows © is a registered trademark of Microsoft Corporation



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: an online module online with general information 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:

1 day









PUBLIC ADDRESS & VOICE ALARM SYSTEMS



BASIC / DESIGNER TRAINING PUBLIC ADDRESS & VOICE ALARM SYSTEMS

<p>GOAL The participants</p> <ul style="list-style-type: none"> - get to know the electro acoustical terms - learn the basics in projecting according to regulations - know how to design and project a voice alarm system <p>TARGET GROUP Designers, commissioning and maintenance specialists for voice alarm systems.</p> <p>CONTENT</p> <ul style="list-style-type: none"> - 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 	<p>Training code: P1_VA_EN/RO (designer) VA11_EN/RO (installer)</p>
	<p>Pre-requisite: Registration</p>
	<p>Training dates: On request</p>
	<p>Training duration: 1 day</p>
	<div>   </div>

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

<p>GOAL The participants</p> <ul style="list-style-type: none"> - will get an overview on VARIODYN D1 and Comprio system - know how to design, install and configure the VARIODYN D1 and Comprio systems <p>TARGET GROUP Designers, installation and commissioning specialists for voice alarm systems.</p> <p>CONTENT</p> <ul style="list-style-type: none"> - 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 due to regulations 	<p>Training code: VA12_EN/RO</p>
	<p>Pre-requisite: Basic training PAVA</p>
	<p>Training dates: On request</p>
	<p>Training duration: 1 day</p>
	<div>   </div> <p>Please note: For the hands-on exercises, you need a notebook with the following requirements:</p> <ul style="list-style-type: none"> • 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 <p><small>Windows © is a registered trademark of Microsoft Corporation</small></p>



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 due to regulations

Training code:

VA01_EN/RO

Pre-requisite:

Basic training PAVA

Training dates:

On request / On demand

Training duration:

1 day / Self-paced



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



Windows © is a registered trademark of Microsoft Corporation





HAZARD MANAGEMENT SYSTEMS



BASIC WORKSHOP WINMAGplus

<p>GOAL</p> <p>The participants learn about the possibilities of management software WINMAG Plus and create a basic configuration.</p> <p>TARGET GROUP</p> <p>Installers and integrators (Basic knowledge of Windows environment is required)</p> <p>CONTENT</p> <ul style="list-style-type: none"> - WINMAGplus Overview - Features - Networks and connections - Possibility of importing graphics - Creating data points and alarm types - Hands-on exercises with WINMAGplus - Introduction and practical exercises with SIAS - Creating a practical example on the PC 	<p>Training code: MS11_WINMAG_EN/RO</p>
	<p>Pre-requisite: Registration</p>
	<p>Training dates: On request</p>
	<p>Training duration: 1 day</p>
	<div>   </div> <p>Please note: For the hands-on exercises, you need a notebook with the following requirements:</p> <ul style="list-style-type: none"> • 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 <p><small>Windows © is a registered trademark of Microsoft Corporation</small></p>

PROFESSIONAL WORKSHOP WINMAGplus

<p>GOAL</p> <p>Based on the knowledge of the basic workshop you will learn about the internal of the WINMAGplus software. Practical exercises complete the workshop.</p> <p>TARGET GROUP</p> <p>Installers and integrators with WINMAGplus experience (Basic knowledge of Windows environment is required)</p> <p>CONTENT</p> <ul style="list-style-type: none"> - The new WINMAGplus-performance features - Deepen 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 	<p>Training code: MS12_WINMAG_EN/RO</p>
	<p>Pre-requisite: Basic workshop WINMAGplus (V5)</p>
	<p>Training dates: On request</p>
	<p>Training duration: 1 day</p>
	<div>   </div> <p>Please note: For the hands-on exercises, you need a notebook with the following requirements:</p> <ul style="list-style-type: none"> • 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 <p><small>Windows © is a registered trademark of Microsoft Corporation</small></p>



TRAINING MAIN LOCATIONS



Training Center and Regional Headquarters in Austria

Honeywell Life Safety Austria GmbH

Euro Plaza

1120 Vienna, Technologiestrasse 5, 3rd floor

Tel.: +43 (0)1 600 60 30 0

www.hls-austria.com

hls-austria-training@honeywell.com

Training Manager: Ing. Herbert Trettler

Trainer: Christian Safer

Honeywell Life Safety Romania
Biroul București
Sector 2
Str. George Constantinescu nr. 3
Upground – Clădirea de birouri BOC
Intrarea A, etaj 4

BUCHAREST



HFS Technical Support and Training Centers in Romania

Honeywell Romania S.R.L.

020339 Bucharest, Upground - BOC Office Building,

Str. George Constantinescu nr.3, 2nd district

Tel.: +40 (0)31 224 3001

www.hls-romania.com

hls-romania@honeywell.com

Tech. Support Specialist & Trainer: Carol Șamu

Tech. Support Specialist & Trainer: Dr. Andrei Silișteanu



LUGOJ

Honeywell Life Safety Romania S.R.L.

305500 Lugoj, Str. Salcânilor nr. 2 bis

Tel.: +40 (0)256 350 000

www.hls-romania.com

hls-romania@honeywell.com

Tech. Support Specialist & Trainer: Carol Șamu