



Dear Customer,

Within this catalogue you have access to an overview of the trainings that we, Bosch Security and Safety Systems, offer to our customers in the **UK at our office in Denham**, as well as at **central locations in Grasbrunn, Germany and Eindhoven, the Netherlands**.

Although the majority of the featured trainings are classroom trainings, we have also included any Web Based Trainings that are necessary as a prerequisite in order to attend a specific Classroom Training.

This catalogue includes a broad choice of all the classroom trainings that we offer in our locations in UK (Denham), Grasbrunn (Munich), Germany and Eindhoven, the Netherlands and therefore each domain is represented, thus within this catalogue you will find trainings in: Video, Intrusion, Access Control, Management Systems, Public Address, Conference and Fire.

As we offer both online and classroom trainings you will see these symbols within this catalogue:



This symbol represents the trainings that are online



This symbol represents the trainings that take place in the classroom



This symbol represents Virtual Classroom Trainings

Virtual Classroom Trainings are new to Bosch Security and Safety Systems for 2018. These trainings are conducted by a senior trainer via an online classroom within the program **Adobe Connect**.

Each page includes a description of the training together with the learning targets, prerequisites and target groups.

Please note that all our classroom trainings are English unless explicitly specified otherwise.

All **online trainings are free**, for **price information regarding classroom trainings** please refer to the training pages on the Bosch Security and Safety Academy Website.

Language explanation for written content:

English (EN), Russian (RU), Chinese (ZH),
German (DE), French (FR), Spanish (ES),
Portuguese (PT), Turkish (TR), Korean (KR)

All audio of the WBT's are in English only

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Calendar

TRAINING	Months				
	August	September	October	November	December
Video Recording Hands-On Workshop - Master Level	29 Eindhoven	18 UK (Denham)	9 UK (Denham)	6 UK (Denham)	4 UK (Denham)
Video Camera Hands-On Workshop - Master Level	30 Eindhoven	19 UK (Denham)	10 UK (Denham)	7 UK (Denham)	5 UK (Denham)
Video Analytics Hands-On Workshop - Master Level	31 Eindhoven	20 UK (Denham)	11 UK (Denham)	8 UK (Denham)	6 UK (Denham)
Bosch Video Management Systems Expert		25-27 UK (Denham)	16-18 UK (Denham)	20-22 UK (Denham)	11-13 UK (Denham)
Bosch Video Management Systems Master		20-21 Eindhoven	11-12 Grasbrunn	08-09 Grasbrunn	06-07 Eindhoven 13-14 Grasbrunn
Bosch Video Management System SDK - For Integration Engineers			01-02 Grasbrunn		
Modular Alarm Platform 5000 - Expert Level		11-12 Grasbrunn			
G-Series Control Panels - Expert Level			18-19 Grasbrunn	29-30 Grasbrunn	
Access Professional Edition		13-14 Grasbrunn			
Bosch Building Integration System - Expert Level				12-16 Grasbrunn	3-7 Grasbrunn
Bosch Building Integration System - Master Level (PLATFORM TRAINING)					
Bosch Public Address PA basics – Professional Training	27 Eindhoven			05 Eindhoven	03 Eindhoven
Bosch Public Address PAVIRO (nw) - Technical Master				06-08 Eindhoven	
IRIS-Net Technical Expert (GUI Basic)				08-09 Eindhoven	
Praesideo - Technical Master		19-20 UK (Denham)		14-15 UK (Denham)	
Praesideo - System Maintenance and Basic Service for Masters	31 Eindhoven				
Bosch Public Address Plena and Plena Voice Alarm - Technical Expert	25-26 UK (Denham)				04-05 Eindhoven
Bosch Conference DICENTIS - Technical Master		03-06 Eindhoven		26-29 Eindhoven	
Bosch Conference DCN - Next Generation - Technical Master			24-25 UK (Denham)		
Fire Alarm Panel FPA-1200/5000 Technical Training - Expert				27-28 Grasbrunn	
Fire Alarm Panel FPA-1200/5000 Technical Training - Master			16-17 Grasbrunn		
FPA-5000 Master Training (English)			16-17 Grasbrunn		
FPA-5000 Master Training (German)			22-23 Grasbrunn		
FPA-5000 Expert Training (German)	¹		24-25 Grasbrunn		
Bosch Public Address Praesideo - Technical Master				13-15 Eindhoven	
Bosch Public Address Praesideo System Maintenance and Basic Service				16 Eindhoven	

¹ Applicable for FSO-4000

Booking Information

How to book a training

In order to book a classroom training you need to go through the Bosch Security and Safety Academy website and on the tab titled “registration” you are able to book yourself onto a training course. In order to access the courses you must first register an account, if you already have an account then you will be able to log on straight and access the trainings.

To partake in any online training you must register an account for the Bosch Security and Safety Academy, you will then be able to start the online training of your choice within the Bosch Security and Safety Academy, which you have access to at any time and can stop and start as you please.

How to register for the Bosch Security and Safety Academy

- ▶ The address of the Bosch Security and Safety Academy is <https://academy.globalteach.com/ST/Login.aspx>
- ▶ On this webpage you will find a link which says “create an account”
- ▶ You will then be directed to the “Self Registration” page for new users
- ▶ To complete the registration process please fill out all the necessary information
- ▶ Please note that access to the Bosch Security and Safety Academy will be granted within 48 business hours after the registration

Further questions

Should you have any further questions regarding our trainings or problems with your account in the Bosch Security and Safety Academy please do not hesitate to contact us at:

security.training@uk.bosch.com

Login

Username

Password

Login

Forgotten Your Password?
If you have forgotten your password you can request a new one.

→ [Request password](#)

Don't have an account?
If you don't have a personal user account, please create your own user account here.

→ [Create an account](#)

Certificates

Both online trainings and classroom trainings award the customer a certificate upon the successful completion of the course and the online exam. These certificates are often prerequisites in order to progress further within a training plan to achieve the highest level.

All of the certificates achieved by the customer can be found in one place on the Academy website. The certificates are available as PDF which the customer has the option to download and print.

The certificates can be seen and downloaded by selecting the 'My profile' tab at the top of the screen. The customer is then directed to their profile which features their username, language settings and company on the first page. The customer will see, on the left hand side of the screen there is a tab named 'Show certificates' – this is where all certificates that customers have achieved through both Online Trainings and Classroom lessons can be found, they can download and printed these when ever they want.

You are here: [My profile](#) > [Show certificates](#)

▶ [Change password](#)

▶ [Modify user profile](#)

▶ [Show skills](#)

▶ [Show certificates](#)

▶ [Training plan registrations](#)

▶ [Course registrations](#)

▶ [Virtual course registrations](#)

Video Systems Overview



Security

Bosch Video Systems Professional – Training Plan (Online)



Short description	<p>The Bosch Video Systems Professional Online Training Plan consists of 2 Web-Based Trainings.</p> <p>In the "Bosch Video Systems Professional Training" the customer will receive an overview of the Bosch world in general and will be provided with the basic information concerning the Bosch Video Systems technologies.</p>
Content	<p>The modules and topics that will be featured within these trainings are:</p> <ul style="list-style-type: none"> ▶ Bosch Video Systems Basic Training <ul style="list-style-type: none"> ▶ Introduction to the Bosch group ▶ Bosch Key Technologies ▶ Bosch IP Product Portfolio ▶ Intelligent Video Analytics ▶ Bosch Integration Partner Program (IPP)
Learning targets	<p>By successfully completing this training the customer should:</p> <ul style="list-style-type: none"> ▶ Learn about basic information concerning the Bosch Video Systems
Prerequisites	<ul style="list-style-type: none"> ▶ None
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Integrators, Administrators and Installers ▶ Project Engineers & Sales Support Engineer ▶ Sales and Pre-Sales ▶ System Design

Security

IP Networking Basics (Web Based Training)



Short description	<p>Understanding basic networking functions and concepts. IPv4 addressing, data protocols, transmission methods and an overview of the Open System Interconnection (OSI) model.</p>
	<p>It will take you approximately 90 minutes to complete this course.</p>
	<p>This course is available in the following languages: English / Russian / Chinese / German / French / Spanish</p>
Content	<ol style="list-style-type: none"> 1. Network Overview <ul style="list-style-type: none"> ▶ What is IP? ▶ What is a Network? ▶ Local Area Network and Wide Area Network ▶ Hardware ▶ Network Cables 2. IP Addressing Basics <ul style="list-style-type: none"> ▶ Anatomy of an IPv4 Address ▶ IPv4 Address Classes ▶ IPv4 Address Structure ▶ IPv4 Address Types ▶ Subnet 3. Data Protocols and Data Transmission <ul style="list-style-type: none"> ▶ OSI Model ▶ Data Transmission Methods ▶ Data Protocols
Learning targets	<p>By the end of this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Have a better understanding of the way basic networking functions. ▶ Understand about the various types of cabling used in networks. ▶ Understand what network equipment is used and what type of connectivity each can provide. ▶ Give first recommendations on basic networking functionality and support in smaller network environments.
Prerequisites	<p>No Prerequisites</p>
Target groups	<p>This WBT is intended for all associates who are integrating products in an IT network or who are offering support for customers.</p>

Security



Bosch Video Systems Expert - Training Plan (Online)

Short description	The Bosch Video Systems Expert Online Training Plan consists of 4 Web-Based Trainings . The training plan will describe the different elements of a cameras, IP recording and video analytics that need to be taken into consideration when you start designing a video system solution .
Content	<p>The modules and topics that will be featured within these trainings are: Bosch Video Systems Introduction to the Expert Training</p> <ul style="list-style-type: none"> ▶ History of C.C.T.V ▶ Camera fundamentals (module 1) <ul style="list-style-type: none"> ▶ Lens and Back focus ▶ Light and Illumination ▶ Field of view ▶ Encoding ▶ Technologies ▶ CPP ▶ Recording fundamentals (module 2) <ul style="list-style-type: none"> ▶ Recording designs ▶ Compression ▶ Bandwidth ▶ Recording modes ▶ Retention times ▶ iSCSI ▶ RAID ▶ NVR-VRM recordings ▶ Project Design fundamentals (module 3) ▶ Video Analytics fundamentals (module 4) <ul style="list-style-type: none"> ▶ Understand how video analytics works ▶ Designing a solution
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Understand the elements of a video solution ▶ Design a video solution based on the Bosch portfolio ▶ Understand the basic rules to be able to implement video analytics
Prerequisites	▶ Successful completion of Bosch Video Systems Professional (see page 11)
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Engineers and Installers ▶ Project Engineers & Sales Support Engineers ▶ Pre-Sales ▶ System Design

Security

Bosch Video Systems Master - Training Plan



Short description	An online training plan featuring 2 Web Based Trainings and 3 Classroom Trainings
	The training plan will cover the installation and configuration of the camera, recording and Video analytics solutions of Bosch.
Content	<p>The modules and topics that will be featured within these trainings are:</p> <ul style="list-style-type: none"> ▶ Single System Configuration ▶ All in one systems configuration <ul style="list-style-type: none"> ▶ All in one systems configuration introduction ▶ DIVAR IP 5000 installation / configuration ▶ DIVAR IP 3000 installation / configuration ▶ DIVAR Hybrid and DIVAR Network installation / configuration ▶ Split Systems Configuration <ul style="list-style-type: none"> ▶ Split Systems Configuration Introduction ▶ Split Systems Configuration with BVC ▶ Split Systems Configuration with BVMS Viewer ▶ Video Analytics Configuration <ul style="list-style-type: none"> ▶ Video Analytics installation / configuration ▶ Video Analytics fine tuning ▶ Recorder Configuration Workshop (Classroom Training 1) <ul style="list-style-type: none"> ▶ See page 15 ▶ Camera Configuration Workshop (Classroom Training 2) <ul style="list-style-type: none"> ▶ See page 16 ▶ Video Analytics Configuration Workshop (Classroom Training 3) <ul style="list-style-type: none"> ▶ See page 17
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Install & configure a Bosch Video solution ▶ See also page 15, 16, 17
Prerequisites	▶ Successful completion of Bosch Video Systems Expert
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Engineers and Installers ▶ Sales Support Engineer

Security

Recorder Configuration Workshop



Short description	<p>This classroom training is part of the Bosch Video Systems Training plan Master. It will cover the installation and configuration of different recording types:</p> <ul style="list-style-type: none"> ▶ Local (SD) recording ▶ DIP 2000/5000/6000 VRM based recording ▶ DIP 3000/7000 BVMS based recording
Content	<p>Divar Network 3000/5000 recording (optional)</p> <ul style="list-style-type: none"> ▶ Local recording by web based settings ▶ DIP 2000/5000 by wizard and web based configuration ▶ DIP 3000 by wizard and Config Client basic configuration
Learning targets	<p>Divar Network by local and web based configuration (optional)</p> <p>By successfully completing this workshop the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Select the proper recording type for each specific application ▶ Apply the different recording types according to the needs of the customer
Prerequisites	<p>Understand the difference between Continuous or Alarm based recordings</p> <p>Certificate: Bosch Video Systems Expert</p> <p>Web-Based Trainings from Bosch Video Systems Master Training plan (see page 13)</p>
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Engineers and Installers ▶ Sales Support Engineer

Security

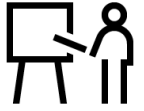
Camera Configuration Workshop



Short description	<p>This classroom training is part of the Bosch Video Systems Training plan Master. The workshop will cover the installation and configuration of the main cameras:</p> <ul style="list-style-type: none"> ▶ Autodome IP ▶ Dinion Starlight ▶ Flexidome Starlight ▶ Flexidome Panoramic
Content	<ul style="list-style-type: none"> ▶ General Settings ▶ Advanced Settings ▶ Interfaces Configuration ▶ Network Settings ▶ Service / Maintenance Settings
Learning targets	<p>By successfully completing this workshop the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Install by mounting and assembling each different camera type ▶ Understand how to configure the different camera settings ▶ Troubleshoot camera problems ▶ Get access to the camera from different client type
Prerequisites	<p>Certificate: Bosch Video Systems Experts (see page 13)</p>
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Engineers and Installers ▶ Sales Support Engineer

Security

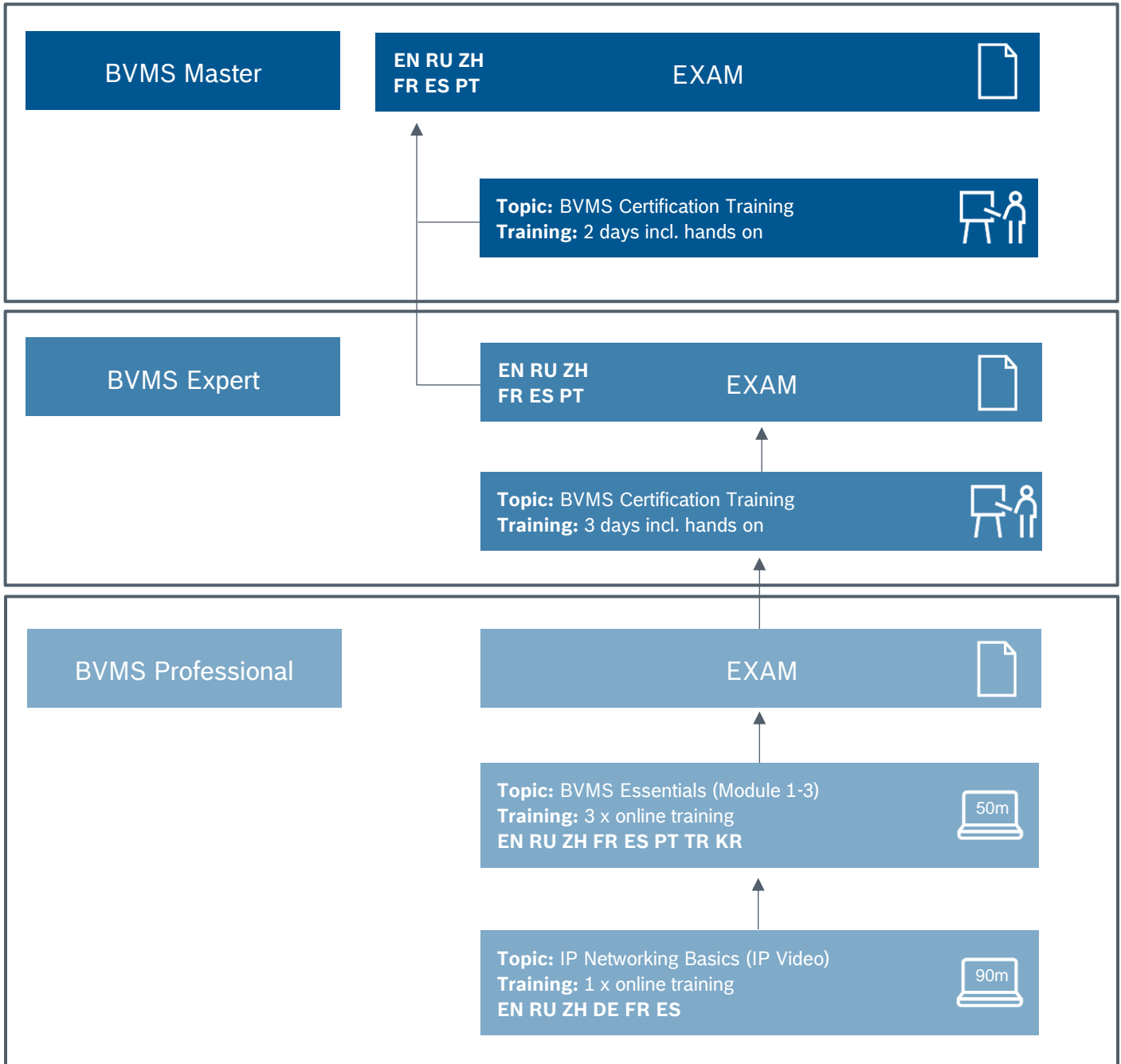
Video Analytics Configuration Workshop



Short description	<p>This class room training is part of the Bosch Video Systems Training plan Master. It will cover the two 2 different Video Analytics types with hands-on exercises:</p> <ul style="list-style-type: none"> ▶ Essential Video Analytics ▶ Intelligent Video Analytics
Content	<p>Set up, configure and test both Video Analytics types with different camera types (Box, Dome, PTZ and Panoramic) with the following configuration options:</p> <ul style="list-style-type: none"> ▶ Task generation ▶ Camera calibration ▶ Tracking modes ▶ Face detection ▶ Counter flow ▶ Tamper detection ▶ Recording meta data ▶ Forensic search
Learning targets	<p>By successfully completing this workshop the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Select the proper recording type for each specific application ▶ Apply the different recording types according to the needs of the customer ▶ Understand the difference between Continuous or Alarm based recordings
Prerequisites	<p>Certificate: Bosch Video Systems Expert Two Web-Based Trainings from Bosch Video Systems Master Training Plan (see page 14)</p>
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Engineers and Installers ▶ Sales Support Engineer

Bosch Video Management System (BVMS) overview

Training for Technical Engineers



Languages are subject to availability (phased approach)

Security

Bosch Video Management System (BVMS) – Professional Level Online Training Plan: Technical Focus



Short description	<p>When completing this Training Plan you will be able to register for an Expert Level classroom Training offered in different countries across the globe. It includes Web Based Training Modules (WBT's) in order to gain essential knowledge about BVMS and the related environment. Completing this Professional Level Training Plan is the prerequisite to continue with the Expert Level Training plan including classroom based trainings. Please register to the Training Plan and open it afterwards in order to see the assigned individual Web based Training (WBT) offering.</p> <p>This course is available in the following languages: English / Russian / Chinese / French / Spanish / Portuguese / Turkish / Korean</p>
Content	<p>The modules and topics that will be featured within these trainings are:</p> <ul style="list-style-type: none"> ▶ IP-Networking basics (Web-based-Training) ▶ Module 1: Main System components and building blocks ▶ Module 2: Basic interaction between system components ▶ Module 3: Additional system components ▶ Web based online Exam in order to reach the BVMS Professional Level Certificate
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Understand the basic functionality of the main BVMS system components ▶ Understand the basic interaction between the main BVMS components ▶ Understand the basic functionality of the additional BVMS system components
Prerequisites	<ul style="list-style-type: none"> ▶ None
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Engineers, Administrators and Installers

Security

Bosch Video Management System (BVMS) – Expert Level Classroom Training Plan: Technical Focus



Short description	<p>This Training Plan offers a collection of classroom based training courses. Please register to the Training Plan and open it afterwards in order to see the individual classroom lesson offered.</p> <p>Registration to this Training Plan is always possible, there is no prerequisite. However, registering to the classroom training which is offered inside this Training Plan requires the successful completion of the BVMS Professional level Training plan including the Professional Level Exam. A pass rate of 75% of the BVMS Professional Level Exam is required in order to register for the Expert Level classroom training.</p> <p>When completing this Training Plan you will be able to reach the Expert Level Certificate for the Bosch VMS.</p> <p>The exam at the end of this Training Plan is available in the following languages: English / Russian / Chinese / French / Spanish / Portuguese</p>
Content	<p>The modules and topics that will be covered in this training are:</p> <ul style="list-style-type: none"> ▶ BVMS technical overview and main components (MS, VRM, Operator and Configuration Client) ▶ Installation, time synchronisation of system components and license activation ▶ Configuration client: Overview, initial device configuration (cameras, monitor walls and other devices) ▶ Configuration client: Logical tree, schedules, streams and configuration of recording ▶ Configuration Client: Events and alarm handling, user groups and permissions ▶ Video Recording Manager (VRM) fundamentals and detailed configuration ▶ Overview of Bosch iSCSI storage arrays in Bosch VMS environment ▶ Usage of Operator Client features in detail ▶ System design overview: Requirements, licensing options, scalability, resilience and storage estimation ▶ Operation and maintenance: Recording, monitoring, system backup and configuration collector
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Explain the functionality of the main BOSCH VMS components (Management Server, Video Recording Manager, Operator Client, Configuration Client) ▶ Install, configure and operate the Bosch VMS with the Configuration Client and Operator Client ▶ Understand the Video Recording Manager fundamentals and configure main VRM features ▶ Name the Bosch iSCSI storage arrays and explain the main characteristics and selection criteria in Bosch VMS environment ▶ Understand the principles of how to do system design and storage estimate ▶ Execute some basic operation and maintenance tasks
Prerequisites	<p>Successful completion of the BVMS Professional Level training plan and exam (A passing rate of 75% of the BVMS Professional Level Exam is required in order to register for an Expert Level Classroom Training.)</p>

Target groups	Recommended for: <ul style="list-style-type: none">▶ System Engineers, Administrators and Installers who frequently work with BVMS (hands on)▶ Project Engineers, Sales Support Engineer & System Architects who want to gain practical (hands on) experience with BVMS
Training Duration	3 Days

Security

Bosch Video Management System (BVMS) – Master Level Classroom Training Plan: Technical Focus

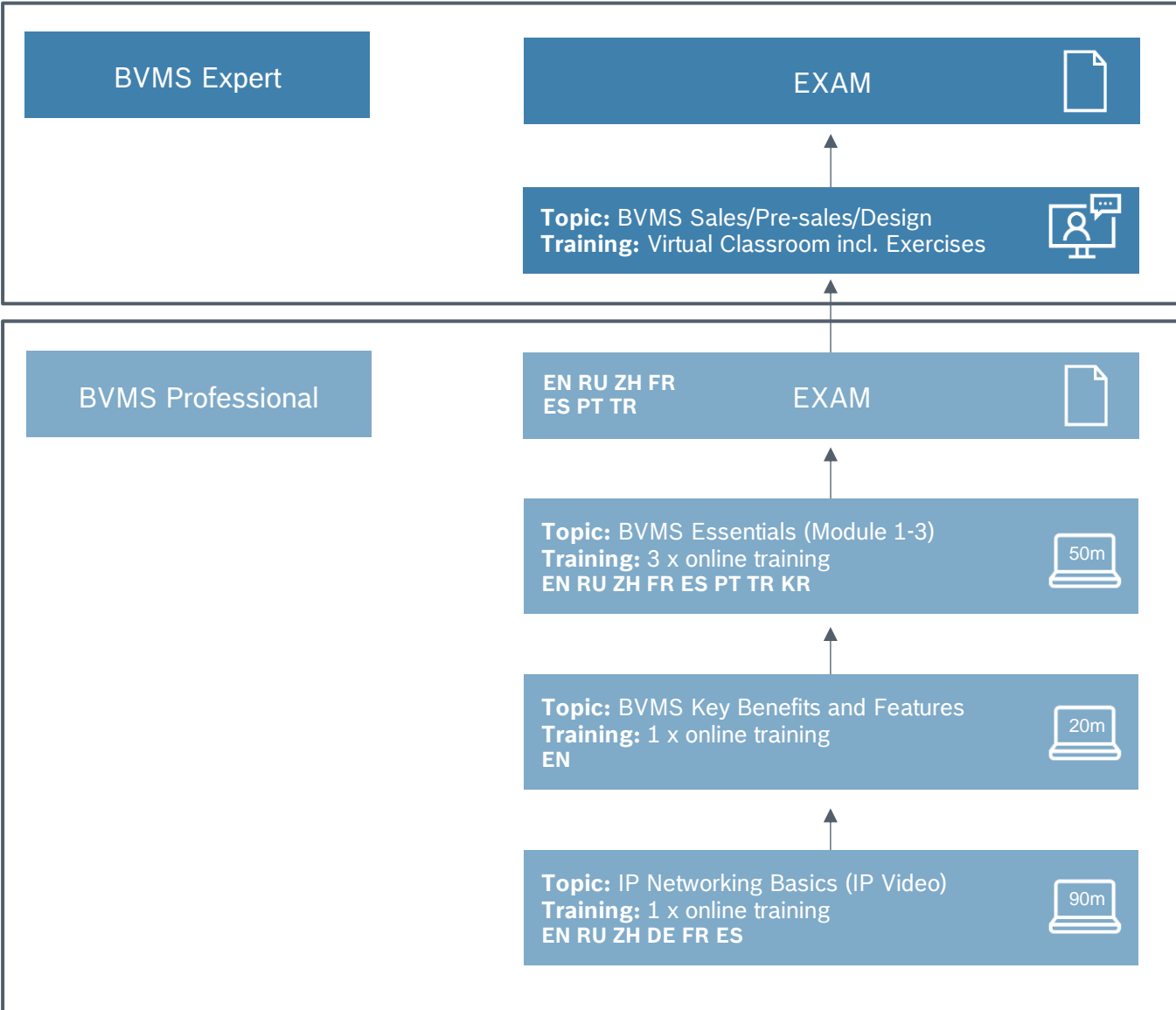


Short description	<p>Please register to the Training Plan and open it afterwards in order to see the assigned individual classroom lesson offerings.</p> <p>The exam at the end of this Training Plan is available in the following languages: English / Russian / Chinese / French / Spanish / Portuguese</p>
Content	<p>The modules and topics that will be covered in this training are:</p> <ul style="list-style-type: none"> ▶ Additional components of BVMS (Video Streaming Gateway, Mobile Video Service, Enterprise Management Server) ▶ Introduction to advanced functions and how to configure them: <ul style="list-style-type: none"> ▶ Integration of third party cameras: ONVIF, RTSP, MJPEG ▶ VRM deployment options: Duplicate (duplicate) and failover ▶ Large or distributed employment options: Enterprise System, live and play sites ▶ Remote access settings ▶ LDAP, SNMP ▶ Introduction to scripting (BVMS SDK) ▶ Automatic network replenishment (ANR) ▶ Advanced operation and maintenance: recording supervision, basic troubleshooting ▶ Other topics: Introduction to server virtualisation options (HyperV and VMWare) and Bosch VMS scripting options
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Explain the functionality of the Bosch VMS additional components: Video Streaming Gateway, Mobile Video Service, Enterprise Management Software, ▶ Understand and configure advanced Bosch VMS features and deployment options; <ul style="list-style-type: none"> ▶ 3rd Party Camera Integration: ONVIF, RTSP, MJPEG ▶ VRM deployment options: Dual (mirrored) and failover recording ▶ Large or distributed deployment options: Enterprise System, live and playback sites ▶ Understand Remote access configuration; <ul style="list-style-type: none"> ▶ Simple Network Management Protocol (SNMP) ▶ Automatic Network Replenishment (ANR) ▶ Operation and Maintenance: Recording monitoring, basic trouble shooting ▶ Understand the purpose of the following topics in relation to Bosch VMS: <ul style="list-style-type: none"> ▶ Server virtualization options (HyperV and VMware) ▶ Scripting (BVMS SDKs)
Prerequisites	<ul style="list-style-type: none"> ▶ Pass the BVMS Professional Level Exam ▶ Pass the BVMS Expert Level Exam ▶ Attendance of both Master classroom training days
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Engineers, Administrators and Installers who frequently work with BVMS (hands on) ▶ Project Engineers, Sales Support Engineer & System Architects who want to gain practical (hands on) experience with BVMS

Training Duration 2 Days

Security

BVMS - Sales/Pre-Sales/Design



Languages are subject to availability (phased approach)

Security

Bosch Video Management System Professional Level “Online” Training Plan: Sales/Pre-Sales/Design focus



Short description	<p>When completing this Training Plan you will be able to register for a Sales/Pre-Sales/Design oriented Expert Level virtual classroom training offered from Bosch Security and Safety Systems in English.</p> <p>This Training Plan includes Web Based Training Modules (WBT's) in order to gain essential knowledge about BVMS and the related environment. In addition the 6 BVMS Key Benefits and the related features are presented.</p> <p>Please register to the Training Plan and open it afterwards in order to see the assigned individual Web based Training (WBT) offering.</p> <p>Registration to the Training Plan is for free (no cost).</p>
Content	<p>The exam at the end of this Training Plan is available in the following languages: English / Russian / Chinese / French / Spanish / Portuguese</p> <p>The modules and topics that will be covered in this training are:</p> <ul style="list-style-type: none"> ▶ 01 IP-Networking basics (Web-based Training) ▶ 02 BVMS Key Benefits and Features (Web-Based Training including audio) ▶ 03 BVMS Essentials Module 1: Main system components and building blocks (Web-based Training including audio) ▶ 04 BVMS Essentials Module 2: Basic interaction between system components (Web-based Training including audio) ▶ 05 BVMS Essentials Module 3: Additional system components (web-based Training including audio) ▶ 06 Professional Level Exam
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Understand the basic functionality of the main BVMS System components ▶ Understand the basic interaction between the main BVMS components ▶ Understand the basic functionality of the additional system components
Prerequisites	<ul style="list-style-type: none"> ▶ None
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ Sales/Commercial/Pre-sales/Design oriented experts ▶ Project Managers, Architects & Engineers

Security

Bosch Video Management Systems Expert Level “Virtual Classroom” Training Plan: Sales/Pre-Sales/Design focus



Short description	<p>This Training Plan includes a "Virtual classroom" Training for Sales/Pre-Sales/Design specialists. Please register to the Training Plan and open it afterwards in order to see the individual lesson offered.</p> <p>When completing this Training Plan you will be able to reach the Expert Level Certificate for the Bosch VMS with focus on Sales/Pre-Sales/Design.</p>
Content	<p>During this training the customer will learn:</p> <p>To explain and understand the following topics from sales/design point of view:</p> <ul style="list-style-type: none"> ▶ Unique selling points ▶ Resilience concept ▶ Video Recording Management ▶ Important features (Enterprise, MVS, Dual/Failover Recording, GPU decoding, panoramic cameras, logbook, forensic search, etc.) <p>BVMS Design options:</p> <ul style="list-style-type: none"> ▶ Remote/Multiple site concepts ▶ BVMS Licensing options ▶ System limits ▶ Execute a storage calculation and select the best option for the customers out of the Bosch storage portfolio ▶ Create a bill of material for ordering ▶ Complex design: Enterprise system, Dual Recording, Failover VRM ▶ Integration options (SDK, SNMP, ONVIF, etc.)
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Understand and explain the key features and unique selling points of BVMS ▶ Design a BVMS solution including: <ul style="list-style-type: none"> ▶ Storage Calculation ▶ Bill of Material ▶ Licensing
Prerequisites	<ul style="list-style-type: none"> ▶ A successful completion of the BVMS Professional level training plan including the Professional Level Exam is required. ▶ Registration to this Training Plan is always possible, there is no prerequisite and no cost.
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ Sales specialists ▶ Sales Support Engineers ▶ System Architects ▶ Project Managers

Security

For Integration Engineers: Bosch Video Management System SDK



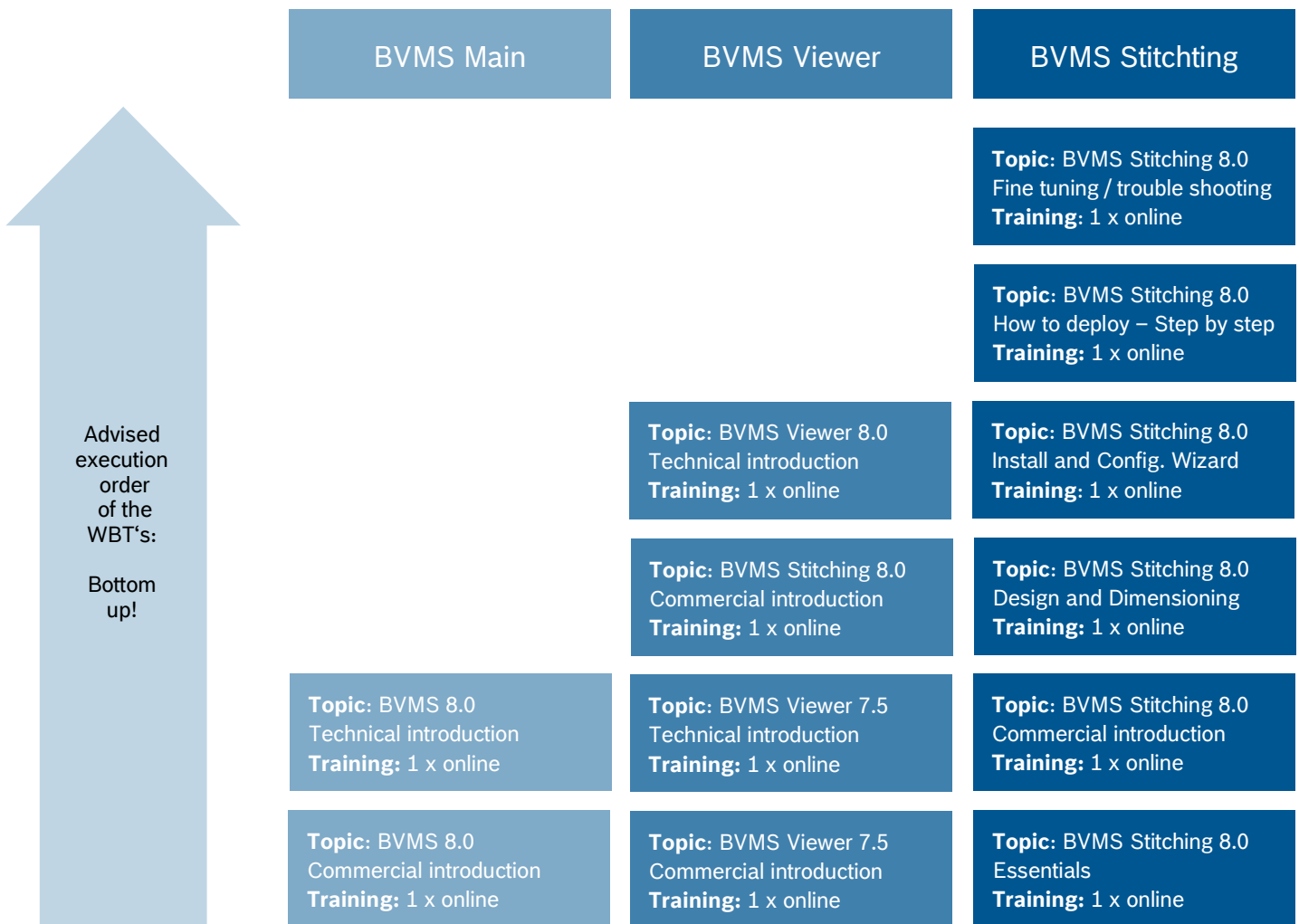
Short description	A Classroom Training which will familiarise the customer with the integration possibilities of the Bosch Video Management System.
Content	<p>The modules and topics that will be covered in this training are:</p> <ul style="list-style-type: none"> ▶ Introduction to BVMS standard integration possibilities ▶ Introduction to the BVMS-SDK suite (ClientAPI, RemoteServerAPI and Cameo SDK) ▶ Convert end-user requirements into internal BVMS scripts ▶ Creating, editing and debugging scripts ▶ Creating internal C# scripts for automated alarm scenarios like populating Operator screens/walls, calling up dome prepositions ▶ How to prepare your Development PC or end-user PC for your SDK application ▶ Setting up Microsoft Visual Studio 2013 for the BVMS-SDK APIs ▶ Designing a sample 3rd party application to connect to a Client Workstation and the BVMS Server ▶ How to pass BVMS events and alarms to external applications ▶ Setting up a Net Remoting data connection to the BVMS Server to pas external data like an Access Control System
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Integrate/control the Bosch Video Management System to/from 3rd party applications ▶ Create a remote Bosch Video Management System controller application
Prerequisites	<ul style="list-style-type: none"> ▶ BVMS Expert and Master Training and Basic C# programming experience
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Integrators ▶ Software Houses
Training Duration	2 Days

Security



BVMS – All Bosch Video Management System Web Based Trainings

Within the BVMS product family we are now offering a range of new online trainings free of charge. These Web Based Trainings feature introductions to the BVMS Main, BVMS Viewer and BVMS Stitching softwares. The trainings are suitable for both technical and sales / design target groups. (Everyone has the option for what they wish to study)



Intrusion

MAP 5000 System Professional – Introduction to MAP 5000 (Online)



Short description	A Web-Based Training which provides an overview of the Modular Alarm Platform 5000 system.
Content	<p>The modules and topics that will be covered within this training plan are:</p> <ul style="list-style-type: none"> ▶ System Overview ▶ Map 5000 components ▶ Options
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Identify the benefits of using the MAP 5000 system ▶ Explain the purpose of the Bosch Open Intrusion Interface (OOI) ▶ List the main components of the MAP 5000 system and describe their functions ▶ Identify the main uses of Bosch's Remote Programming Software (RPS)
Prerequisites	▶ None
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ Installers ▶ System Designers ▶ Technicians ▶ Sales Support Engineers

Intrusion

Bosch Modular Alarm Platform 5000 System Expert (Classroom Training)



Short description	<p>During this training the customer will receive:</p> <ul style="list-style-type: none"> ▶ An in-depth instruction on the installation, programming, and operation of the Modular Alarm Platform (MAP) 5000 system.
Content	<p>The modules and topics that will be covered within this training plan are:</p> <ul style="list-style-type: none"> ▶ System Structure / Power Management ▶ Enclosure and Mounting Concept ▶ Remote Programming Software (RPS) for MAP ▶ Control Centre ▶ Handling of Alarms ▶ View States ▶ Creation of Accounts ▶ Integration of LSN Elements ▶ Integration of Conventional Elements ▶ Configuration of Inputs and Outputs ▶ Area Management ▶ User Management ▶ Firmware Update ▶ System Diagnostics
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Know the basic features of the MAP 5000 System ▶ Set up, configure and operate a MAP 5000 System ▶ Have an overview about peripheral devices ▶ Understand the Bosch Local Security Network and its use in MAP 5000 ▶ Master the diagnostic options ▶ Update the firmware of MAP 5000 modules
Prerequisites	<ul style="list-style-type: none"> ▶ Basic Intrusion knowledge is recommended ▶ MAP 5000 Professional (WBT)
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ Installers ▶ System Designers ▶ Technicians
Training Duration	2 Days

Intrusion



G-Series and B-Series – Professional Training Plan (Online)

Short description	<p>During this training the customer will learn about:</p> <ul style="list-style-type: none"> ▶ The basic components of an intrusion alarm system and understand the features and benefits of the G Series and B Series Integrated System. <p>This training is available in the following languages: English / Polish / Italian / Hungarian / Greek / Spanish / French / Portuguese</p>
Content	<p>The modules and topics that will be covered within this training plan are:</p> <ul style="list-style-type: none"> ▶ Intrusion System Fundamentals ▶ Integrated Intrusion Systems Overview <ul style="list-style-type: none"> ▶ Control Panel and Hardware Devices ▶ System Integration and Features
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Identify the components of an intrusion alarm system ▶ Determine which G-Series or B-Series control panel model is right for each application, based on the features and benefits
Prerequisites	<ul style="list-style-type: none"> ▶ No Prerequisites for this course.
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ Installers ▶ System Programmers ▶ Service Technicians ▶ Project Managers ▶ Sales

Intrusion

G-Series and B-Series – Expert Training Plan



Short description	This Training Plan is made up of 1 Web-Based Training and a 2 day Classroom Training Course
Content	<p>This training is available in the following languages: English / Polish / Italian / Hungarian / Greek / Spanish / French / Portuguese</p> <p>The Web-Based Training featured in this Training Plan is made up of 5 modules:</p> <ul style="list-style-type: none"> ▶ Introduction to IP Networking for Intrusion ▶ G-Series Installation with Wired Devices ▶ B-Series Installation with Wireless Devices ▶ Introduction to Installer App Programming ▶ Intrusion and IP Camera Integration
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Explain the benefits and operation of G-Series Control Panels for commercial use ▶ Mount and install peripheral devices to work with the Control Panel ▶ Perform basic programming options in Bosch's Remote Programming Software (RPS), as well as via the Keypad.
Prerequisites	▶ Successful completion of the G-Series and B-Series Professional Training Plan
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ Installers ▶ Engineers ▶ System Designers ▶ Sales Support Engineers
Training Duration	2 days

Bosch Building Integration Systems (BIS) Overview



Access Control Systems

Bosch Building Integration System (BIS) – Expert Level Training



Short description	<p>A Training Plan which consists of a 5 day Classroom Training. During this training the customer will learn how to properly install and configure BIS for basic functions.</p> <p>Furthermore, through practical examples, modifications on the Graphical User Interface (GUI) a solid knowledge should be gathered to operate and customize the system.</p> <p>Each chapter of the training contains hands-on practice either on the BIS SW or on related software, like hardware and OPC configuration Software.</p>
Content	<p>The modules and topics that will be covered within this training plan are:</p> <ul style="list-style-type: none"> ▶ Bosch BIS Server installer and configuration ▶ BIS Client installation and GUI customization ▶ Access Engine configuration and operation ▶ Creating door models, change parameters of doors and readers ▶ Creating cardholders, authorizations, profiles, Time Models ▶ Integration with Bosch Fire and Intrusion panels ▶ Create associations to show alarm messages ▶ Send commands from BIS to subsystems based on event(s) ▶ BVMS integration and Video Engine basics ▶ Displaying alarm related cameras and remove them when the alarm is cleared ▶ Basic BIS Troubleshooting ▶ Logging and reading/understanding the log files and the use of configuration collector ▶ Use of AutoCAD in order to prepare ACAD drawings for BIS ▶ Fundamental practical Hands-On exercises ▶ Licensing of the individual connections ▶ Operation and maintenance: automated event log backup, configuration backup and migration
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Explain the functionality of BIS and properly allocate BIS to projects ▶ Install, configure and operate BIS ▶ Provide pre-sales demonstrations for end-users and for investors ▶ Provide customized end-user operator training ▶ Customize the AutoCAD drawing and BIS GUI ▶ Create price quotations and license BIS properly ▶ Execute basic operation and maintenance tasks ▶ Import cardholders' data from an existing access control system ▶ Backup/Restore event log DB ▶ Backup/Restore and migrate configuration
Prerequisites	<ul style="list-style-type: none"> ▶ IP networking fundamentals including IP addressing schemes, subnet mask settings and basic troubleshooting ▶ Knowledge of Microsoft Windows like changing values in the Registry, usage of the command prompt ▶ The knowledge of Access Control product portfolio according to the “Professional Level” training

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- ▶ Expert Level Certificate for the following Bosch products (configuration and operation):
 - ▶ Fire FPA5000 and/or FPA1200 (see [page 55](#))
 - ▶ Intrusion Panel MAP5000 (see [page 32](#))
 - ▶ Intrusion Panel B/G-Series (see [page 33](#))
 - ▶ Bosch VMS and Bosch Video over IP devices
 - ▶ Participants will only be accepted onto the course if they have completed the IP Networking Basics Web Based Training.

Target groups

Recommended for:

- ▶ System Integrators, Project Engineers, Administrators and Installers who are responsible for installing, commissioning and for maintenance of the BIS system
- ▶ Project Engineers, Sales Support Engineers, System Architects who want to gain practical experience with BIS and have responsibility in system design and quotations
- ▶ NOTE: This training cannot be considered as a suitable training for Operators who should work on a daily basis with the BIS operator client.

Training Duration5 Days

Access Control Systems

Bosch Building Integration System (BIS PLATFORM TRAINING) –
Master Level Training



Short description	A Training Plan which comprises of 1 Classroom Training
	<p>This training will teach you advanced configuration possibilities of BIS Platform. Furthermore, it will cover features and functionalities which are required in multi-site BIS projects, and also in projects, where the customization of the Graphical User Interface is necessary. Additionally, this training teaches you to connect PRAESIDEO and Conetix subsystems to BIS, and also the use of Template Jobs.</p>
Content	<p>The modules and topics that will be covered within this training plan are:</p> <ul style="list-style-type: none"> ▶ AUE-PRAESIDEO connection (How to set up PRAESIDEO; installation and configuration of PRAESIDEO OPC; configuring PA Manager; customizing PA-related detector type commands; interconnection with other subsystems; licensing) ▶ AUE-Connetix connection (How to set up D6600 for BIS Connection; installation and configuration of D6600 OPC; Customizing Connetix-related points; limitations; licensing) ▶ Multi-site BIS configuration (set up consumer server; set up provider server; connect servers to each other) ▶ OPC Connector (when it should be used; configuring it) ▶ BIS Proxy OPC-DA (when it should be used; configuring it) ▶ Analog Values in BIS ▶ Customizing detector symbols ▶ Use of template jobs ▶ Graphical User Interface customization (use of object models; auto delete; multiple message inbox; use of multiple monitors; message inbox customization; subscription control)
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Connect a PRAESIDEO system to BIS, and set up its special HTML page for easier control of the integrated system ▶ Connect a Bosch Connetix receiver to BIS ▶ Configure consumer and provider servers for Multi-Site BIS systems and establish the communication between these serves ▶ Create new – project specific – detector symbols ▶ Configure the OPC connector and the BIS Proxy OPC-DA OPC Server ▶ Carry out advanced customization tasks on the BIS Graphical User Interface
Prerequisites	<ul style="list-style-type: none"> ▶ Participation in the Bosch BIS Expert Level Training (4,5 Days) ▶ Practical (project-site) experience with BIS ▶ Configuration knowledge of both the PRAESIDEO and Connetix systems
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Integrators ▶ Project Engineers ▶ Administrators ▶ Installers who are responsible for installing, commissioning and maintenance of the BIS system

Training Duration 2 Days

Access Control Systems

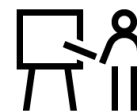
Building Integration System (BIS) Master Level – BIS ACE



Short description	<p>A Training Plan which consists of 1 Classroom Training</p> <p>This training will teach the customer advanced configuration possibilities of BIS Access Engine. Furthermore, it will cover features and functionalities which are required in multi-MAC and remote SQL database BIS projects.</p>
Content	<p>The modules and topics that will be covered within this training plan are:</p> <ul style="list-style-type: none"> ▶ Multi-MAC configuration ▶ Remote SQL ACE database configuration ▶ Practice on Elevator and DM10 Door Models ▶ Configuring the Report Builder ▶ Setting up Divisions ▶ Configuring and use of fingerprint readers ▶ Configuring and use of Pegasys offline locking system ▶ Configuring and use of Deister key cabinet
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Set up a BIS access control system with multiple MACs ▶ Configure a system, in which the Access database is located on a remote SQL machine ▶ Design and configure Door Model 10 ▶ Configure and use fingerprint readers ▶ Configure and use Pegasys offline locking system ▶ Configure and use Deister key cabinet
Prerequisites	<ul style="list-style-type: none"> ▶ Participation in the Bosch BIS Expert Level Training ▶ Practical (project-site) experience with BIS
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ System Integrators and Project Engineers ▶ Administrators ▶ Installers who are responsible for installing, commissioning and for maintenance of the BIS system, especially when access control is included
Training Duration	3 days

Access Control Systems

Access Professional Edition (APE)



Short description	A Training Plan which comprises of 1 Classroom Training During this training the customer is introduced to the Bosch APE Software and to the AMC controller Product Family
Content	The modules and topics that will be covered within this training plan are: <ul style="list-style-type: none"> ▶ Basic Introduction to the Access Professional Edition Software ▶ Introduction to AMC Controller Programming ▶ Practical Programming of AMC2 hardware & APE software ▶ APE integration to Milestone XProtect
Learning targets	By successfully completing this training the customer should be able to: <ul style="list-style-type: none"> ▶ Work with and set up an Access Control System based on Bosch AMC hardware and Access Professional Edition Software
Prerequisites	<ul style="list-style-type: none"> ▶ Basic network knowledge ▶ To participate in this training the customer should have some previous experience in Access Control Systems, Installation and Configuration ▶ Milestone XProtect knowledge is beneficial but not required
Target groups	Recommended for: <ul style="list-style-type: none"> ▶ Installers ▶ Project Engineers ▶ Service Engineers
Training Duration	2 Days

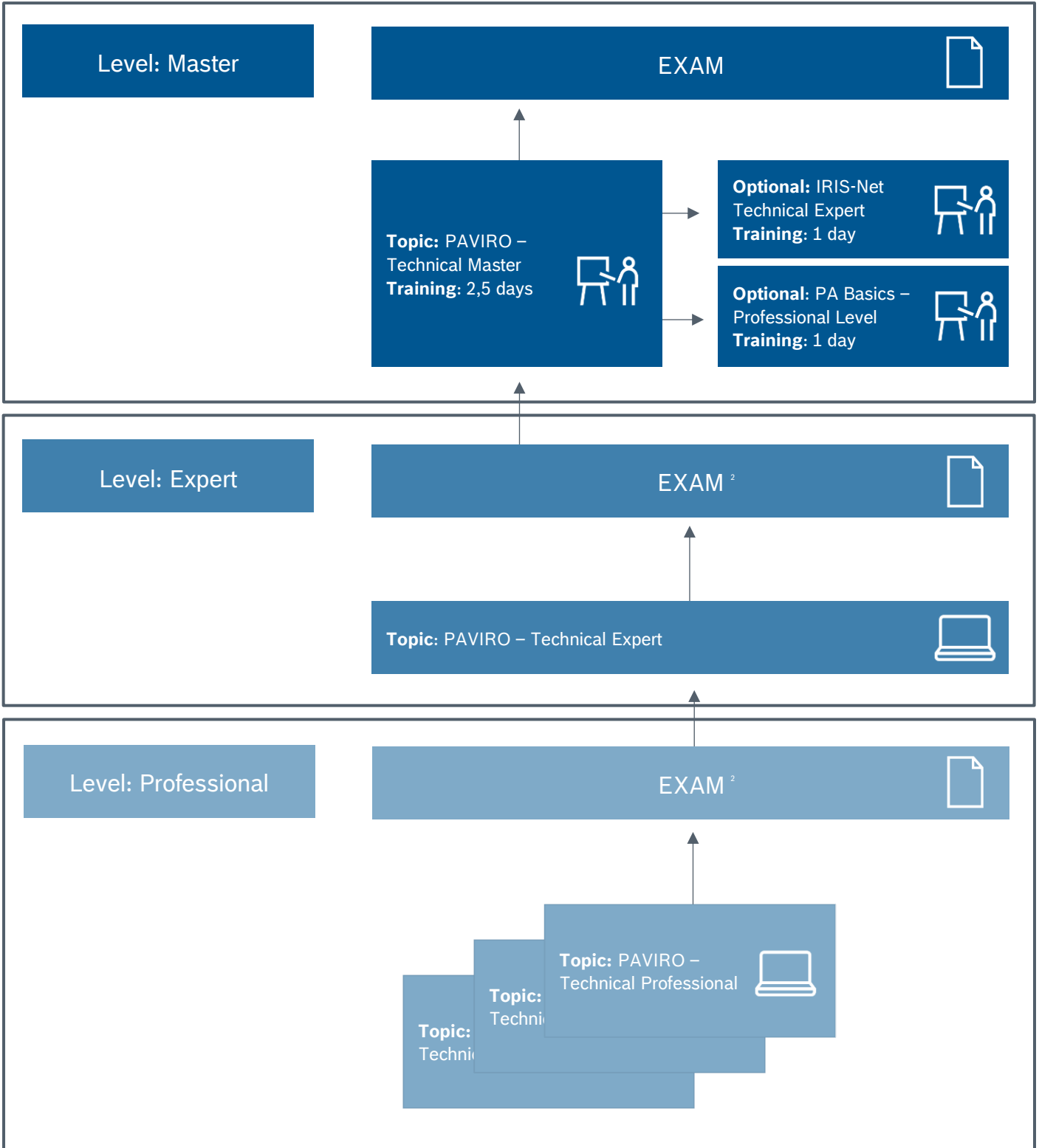
Communications



Bosch Public Address PA basics – Professional Training (Online)

Short description	Web-Based Training In this training we will provide you with the basic information concerning audio and public address technologies.
Content	The modules that will be part of this web based training is: <ul style="list-style-type: none"> ▶ Public Address basics ▶ 100Volt Basics ▶ Microphones ▶ Loudspeakers ▶ Amplifiers ▶ Mixing Amplifiers ▶ Application of characteristics of Public Address Systems
Learning targets	By successfully completing this training the customer should be able to: <ul style="list-style-type: none"> ▶ Have a basic understanding of the principles of operation of public address ▶ Know the different components and techniques used in a public address ▶ Have a basic understanding of the applications and markets of public address ▶ Be provided with the fundamentals for the rest of the training week(s)
Prerequisites	<ul style="list-style-type: none"> ▶ Basic knowledge of electricity / electronics
Target groups	<ul style="list-style-type: none"> ▶ Employees, commercial and technical, with no or limited experience in PA ▶ Beginners who hardly have experience in the Public Address business and want to attend other Public Address trainings

PAVIRO Overview



² As part of online tests included in the Web Based Training modules

Public Address

Bosch Public Address PAVIRO (networked) – Technical Professional (Online)



Short description	This Web-Based Training contains an introduction to the PAVIRO system and its hardware components as well as the Loudspeaker and topologies and networking functions.
Content	<p>The modules that will be part of this web based training are:</p> <ul style="list-style-type: none"> ▶ Bosch Public Address PAVIRO System Introduction (V2) ▶ Bosch Public Address PAVIRO Controller ▶ Bosch Public Address PAVIRO Amplifier ▶ Bosch Public Address PAVIRO Router ▶ Bosch Public Address PAVIRO Call Station ▶ Bosch Public Address PAVIRO Loudspeaker Line Supervision ▶ Bosch Public Address PAVIRO Loudspeaker Topologies Introduction ▶ Bosch Public Address PAVIRO Networked Introduction ▶ Bosch Public Address PAVIRO Networked Introduction - Assessment
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Give an overview of the PAVIRO system ▶ Describe the hardware setup and the application of the PAVIRO devices ▶ Understand terms like CAN BUs and CST BUs ▶ Choose between the different types of loudspeaker line supervision ▶ Draft a simple PAVIRO system setup ▶ Understand different topologies and relation to router clusters ▶ Select the right number of routers and amplifiers ▶ Understand speaker line power allocation ▶ Understand the signal flow between the system components ▶ Understand the PAVIRO networking functions and features
Prerequisites	▶ Basic knowledge of public address
Target groups	▶ Sales and Marketing

Public Address



Bosch Public Address PAVIRO (networked) – Technical Expert (Online)

Short description	Web-Based Training The PAVIRO – from spec to BOM trainings will give the customer several project examples to show how to build up a PAVIRO system BOM according to the project requirements. A certificate will be available upon completion of the training plan.
Content	This training plan will include 5 project design examples from Spec to BOM: <ul style="list-style-type: none"> ▶ Shopping Centre ▶ School ▶ Hotel ▶ Sports Centre ▶ Networked Systems It also includes an optional Network Basics WBT
Learning targets	By successfully completing this training the customer should be able to: <ul style="list-style-type: none"> ▶ Specify a system and turn it into a Bill of Material
Prerequisites	<ul style="list-style-type: none"> ▶ The Level 'Technical Professional' must have been reached first
Target groups	<ul style="list-style-type: none"> ▶ Sales and Marketing ▶ System Design Engineers

Public Address

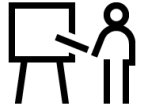
Bosch Public Address PAVIRO (networked) – Technical Master Training Plan



Short description	<p>The PAVIRO Master Training course on advanced system programming and operation is the highest qualification level available on this product line.</p> <p>This training plan consists of Web-Based Trainings and 1 Classroom Training</p> <p>This training also qualifies you as an IRIS-Net Technical Professional</p>
Content	<p>This training plan will include:</p> <ul style="list-style-type: none"> ▶ PAVIRO component and system overview ▶ Configuration Wizard ▶ System examples ▶ Introduction into IRIS-Net for PAVIRO ▶ Topologies and application examples ▶ Firmware Update ▶ IRIS-Net configuration software and its features ▶ System configuration examples in IRIS-Net ▶ Monitoring and spare function examples ▶ Working with 100V relays, speaker zones, groups and audio signal priorities ▶ IRIS-Net utility tools and export functions ▶ Working with Task Engine, Calendar and Integrated Message Manager ▶ Networked PAVIRO systems
Learning targets	▶ SEE CONTENT
Prerequisites	<ul style="list-style-type: none"> ▶ The Web-Based Training modules that are stated in the Master Certification Training Plan need to be completed before the Classroom Training (See Bosch Security and Safety Academy) ▶ Own laptop with admin rights and installed IRIS-Net and Configuration Wizard Software have to be brought along to the training. ▶ For students with low Public Address knowledge we recommend the PA Basics Classroom Training in Eindhoven
Target groups	▶ Installers
Training Duration	2,5 days

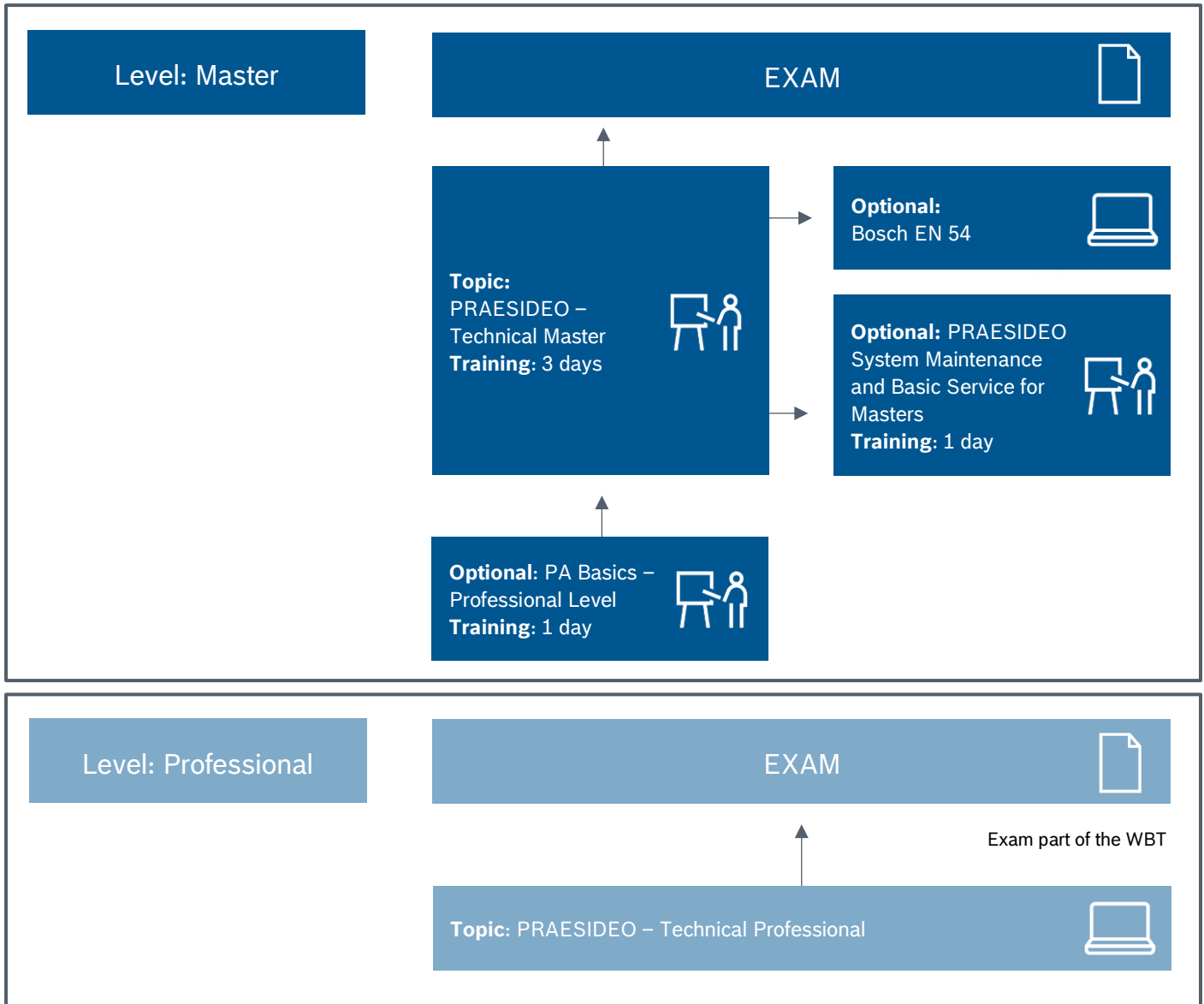
Public Address

IRIS-Net – Technical Expert (GUI Basic)



Short description	<p>A Classroom Training Builds on IRIS-Net hardware classroom trainings (PAVIRO) and is applicable for customers who have attended such a training within the last 2 years. In order to achieve the Technical Expert qualification the customer must pass a Web Based Exam after the Trainings.</p>
Content	<p>This training plan will include:</p> <ul style="list-style-type: none"> ▶ Repetition of important IRIS-Net basics ▶ Object List ▶ Devices and Interfaces ▶ Programming of IRIS-Net graphical user interfaces with standard controls like Button, Fader, LED etc. or alternatively User Controls ▶ Usage of Groups ▶ Project file layers and navigation ▶ Project file structure recommendations ▶ User and Password handling ▶ Custom graphics
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Understand the programming of IRIS-Net user interfaces using standard IRIS-Net elements (Controls/User Controls) and observing basic project design rules. (Layer/Navigation/User)
Prerequisites	<ul style="list-style-type: none"> ▶ IRIS-Net Professional Level by participating in a IRIS-Net hardware training within the last 2 years ▶ Own Laptop according to the IRIS-Net requirements with latest IRIS-Net system requirements with latest IRIS-Net version pre-installed and admin rights to be brought along to the training course
Target groups	<ul style="list-style-type: none"> ▶ Installers
Training Duration	<p>1 Day</p>

PRAESIDEO Overview



Public Address

PRAESIDEO – Technical Professional (Online)



Short description	<p>A Web Based Training which should provide an overview on the PRAESIDEO system and its main functions.</p> <ul style="list-style-type: none"> ▶ This course is made up of 11 modules ▶ This course will prepare the customer for participation in the PRAESIDEO Classroom Training
Content	<p>The modules and topics that will be covered within this Web-Based Training are:</p> <ul style="list-style-type: none"> ▶ PRAESIDEO Introduction ▶ PRAESIDEO Architecture ▶ PRAESIDEO Priorities ▶ PRAESIDEO Call Station Keypad Functions ▶ PRAESIDEO Control input functions ▶ PRAESIDEO Control output functions ▶ PRAESIDEO Key characteristics ▶ PRAESIDEO Call macro's ▶ PRAESIDEO PC connection ▶ PRAESIDEO Security ▶ PRAESIDEO Software 4.nn
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Understand the basics of the PRAESIDEO system and should be ready to participate in the PRAESIDEO Classroom Training
Prerequisites	<ul style="list-style-type: none"> ▶ Basic knowledge of electronics, acoustics and public address systems
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ Engineers ▶ Installers ▶ Sales and Marketing ▶ Specifiers

Public Address

PRAESIDEO – Technical Master



Short description	Technical Master Classroom Training on PRAESIDEO System Programming and Operation. The course is applicable for customers who have already reached Professional Level.
Content	<p>The modules and topics that will be covered within this training plan are:</p> <ul style="list-style-type: none"> ▶ Operating Principles ▶ PRAESIDEO Components ▶ Install and upgrade to the latest SW release ▶ Configuring the PRAESIDEO System ▶ Messages and assembling message sets ▶ Be able to work with the off-line configuration tool ▶ Storing vital system data ▶ Powering, back-up powering and power consumption ▶ Ethernet connection and local/remote access ▶ Fault, Call and Event logging ▶ PC Call station and Telephone interface ▶ IP-Audio Interface ▶ Cobra Net / OMNEO principles and the PRAESIDEO solution using Cobra Net / OMNEO ▶ Battery Charger ▶ Designing a PRAESIDEO System ▶ Hands-on configuring a PRAESIDEO System
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Know the PRAESIDEO product range ▶ Select PRAESIDEO products and make a system design ▶ Upgrade the software ▶ Configure a PRAESIDEO System ▶ Use the additional SW packages for PRAESIDEO ▶ Commission a system
Prerequisites	<ul style="list-style-type: none"> ▶ Professional Web-based Training Course must be completed within the registration phase ▶ Broad experience in PA is required ▶ If a customer, who is active in PA business, wishes to partake in this course but has limited experience, the PA-Basics Web-based Training is strongly recommended
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ Installers
Training Duration	3 days

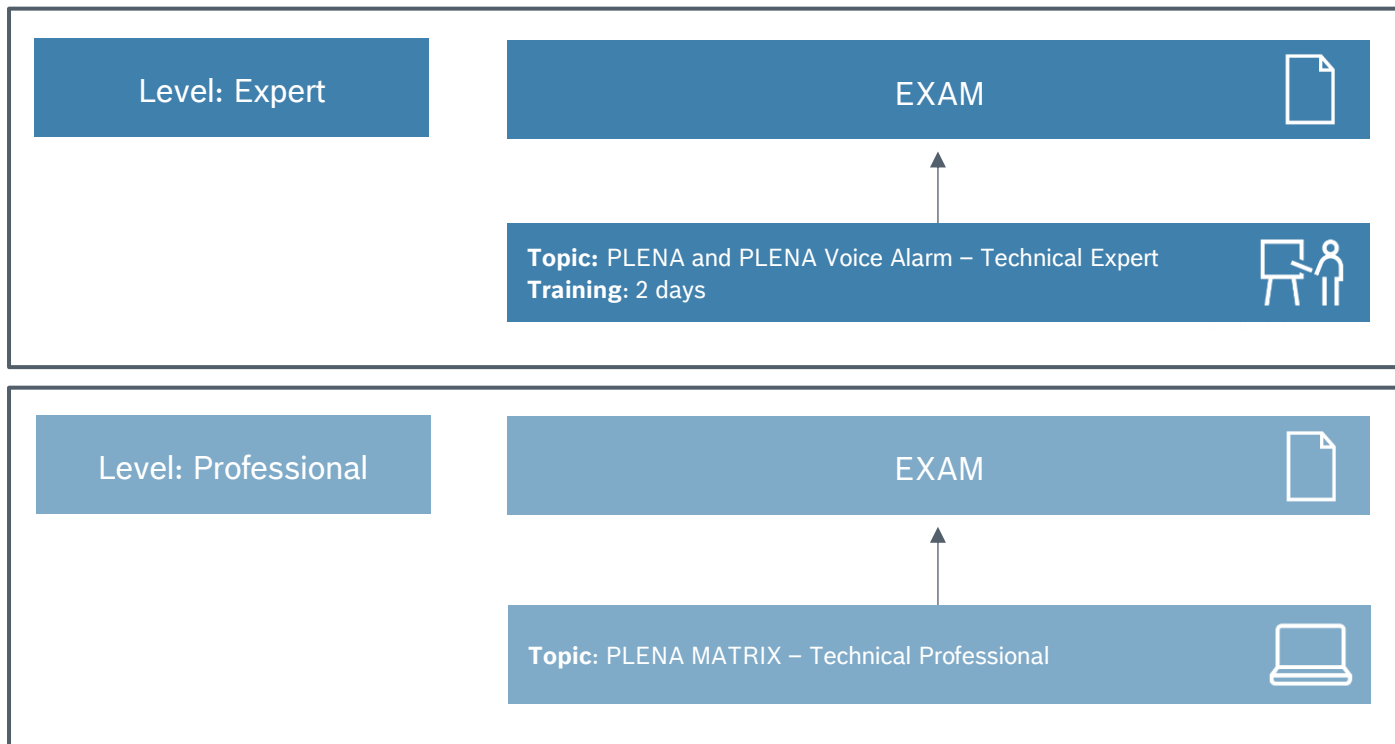
Public Address

PRAESIDEO – Bosch Public Address PRAESIDEO System Maintenance and Basic Service (for Masters)



Short description	Master Classroom Training on PRAESIDEO Maintenance and Service. Highest qualification on the PRAESIDEO system applicable for customers who have already reached Professional and Expert Level.
Content	The modules and topics that will be covered within this training are: <ul style="list-style-type: none"> ▶ Preventive Maintenance ▶ Problems at an installation (system diagnostics) ▶ Fault events and indications ▶ Firmware download recovery ▶ PC to NCO connection ▶ Software version related problems ▶ PRAESIDEO warranty, repair and spare parts
Learning targets	By successfully completing this training the customer should be able to: <ul style="list-style-type: none"> ▶ Apply service on a PRAESIDEO system ▶ Diagnose if a unit is faulty ▶ Solve application / installation related problems ▶ Recover a download failed unit
Prerequisites	<ul style="list-style-type: none"> ▶ Professional Web-Based Training Course: PRAESIDEO – Technical Professional ▶ Master Classroom Training: PRAESIDEO – Technical Master
Target groups	Recommended for: <ul style="list-style-type: none"> ▶ Service Engineers
Training Duration	1 day

PLENA Overview



Public Address

Bosch Public Address PLENA Matrix – Technical Professional



Short description	This web based training plan consists of four studying modules before an assessment module. You are invited to have a look at the PLENA video tutorial compilation which we added as an optional module supporting this training plan.
Content	<p>The content that will be part of this web based training is:</p> <ul style="list-style-type: none"> ▶ System Introduction ▶ Hardware Installation Introduction ▶ Matrix Mixer PC Graphic User Interface (GUI) ▶ Amplifier, Graphic User Interface (GUI) ▶ System Knowledge Assessment
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Describe advantages and capabilities of the PLENA Matrix System ▶ Identify individual components ▶ List features of PLENA matrix hardware products ▶ Identify components on front and back panels ▶ Describe the feature and benefits of the Call Station and Wall Control Panel ▶ Install all five hardware components ▶ Bridge amplifier channels ▶ Set the amplifier input sensitivity ▶ Utilize amplifier standby settings ▶ Describe the override and emergency tones functionality ▶ Review PC GUI user interface levels ▶ GUI installation, interface, controls and configuration ▶ Connecting to a device ▶ Administrator settings ▶ Firmware updates ▶ Amplifier PC GUI user screen ▶ DSP Setup ▶ Standby settings ▶ iOS App user screen, menu screen and global device settings
Prerequisites	▶ None
Target groups	▶ Sales

Public Address

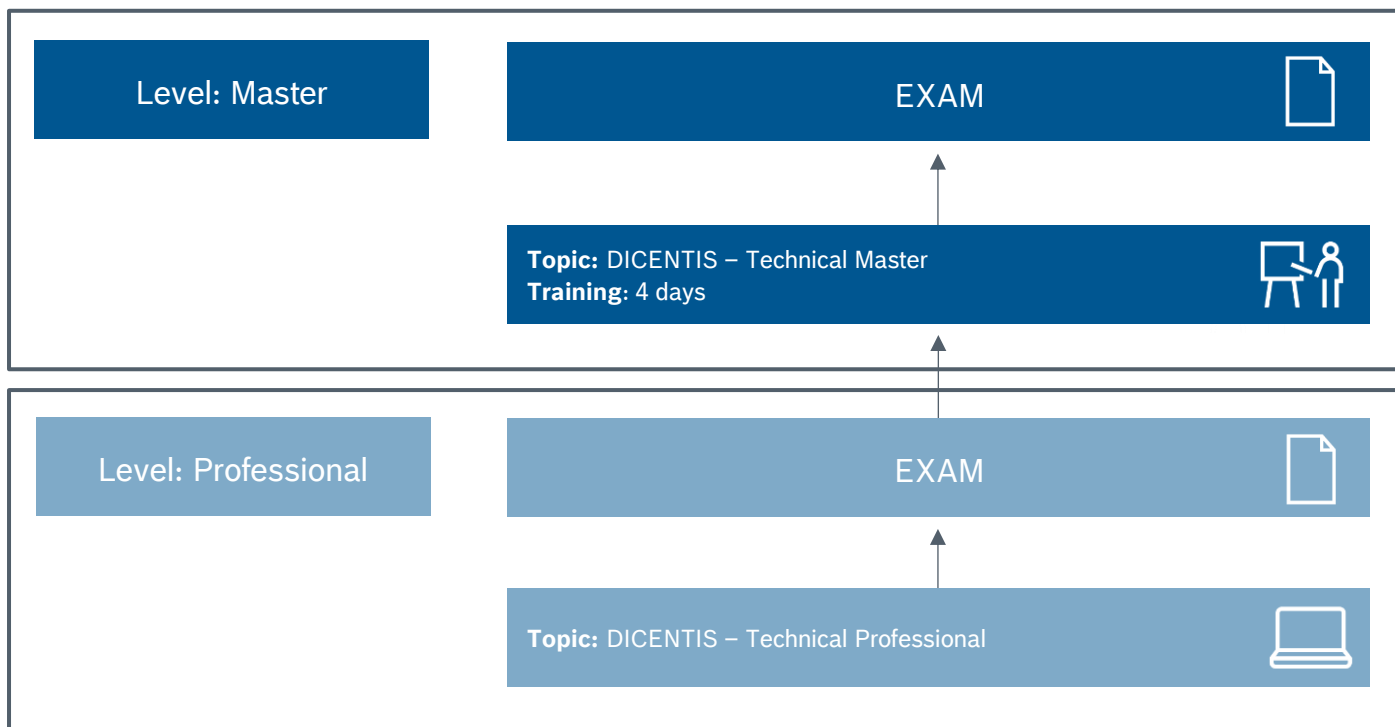


Bosch Public Address PLENA and PLENA Voice Alarm – Technical Expert

Short description	<p>Product training on the PLENA and PLENA VAS product range. The qualification as Technical Expert is achieved by:</p> <ul style="list-style-type: none"> ▶ Attending all training days of the classroom training and ▶ Passing an Online Exam after the training.
Content	<p>The content that will be part of this Training is:</p> <ul style="list-style-type: none"> ▶ Market and product positioning ▶ Features, benefits, do's and don'ts of individual PLENA hardware and software products ▶ Installation, setup and operation of latest hardware and software (including hands-on) ▶ Extending installed PA systems ▶ System architecture and system integration (e.g. with Fire FPA5000) ▶ Overall field knowledge -> transferred to practical solutions (including Hands-on) ▶ Out of the "product" box thinking & building
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Understand the application areas and targeted markets ▶ Know the relation between the benefits and features of each product. ▶ Know in- and outs of the PLENA and the PLENA Voice Alarm Systems ▶ Be able to make a system design ▶ Be able to combine and to install and configure the correct system components ▶ Be able to upgrade the PLENA solutions and PLENA Voice Alarm Systems ▶ Be able to make a competent report & presentation to customers ▶ Be able to support and train wholesalers and installers ▶ Be able to think & build "out of the product box"
Prerequisites	<ul style="list-style-type: none"> ▶ Basic knowledge of public address and MS-Windows ▶ The PA-Basics training is recommended ▶ English Language
Target groups	<ul style="list-style-type: none"> ▶ Sales ▶ Sales Engineer ▶ Project Engineer ▶ System Integrator ▶
Training Duration	2 days

Conference and Discussion

DICENTIS Overview



Conference and Discussion

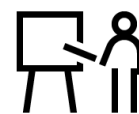


Bosch Conference DICENTIS – Technical Professional

Short description	This training plan is designed for sales and marketing staff. It consists of 4 modules, covering in detail the OMNEO commercial and technical basics, and provides general Sales knowledge on DICENTIS.
Content	<p>The modules and topics that will be covered within this training plan are:</p> <ul style="list-style-type: none"> ▶ Bosch OMNEO IP Basics ▶ Bosch OMNEO General Sales Knowledge ▶ Bosch OMNEO Technical Basics ▶ Bosch Conference DICENTIS General Sales Knowledge
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Explain the positioning of DICENTIS in the market, the benefits of the DICENTIS conference system, and in which typical applications the system can be used ▶ Know the main system components and their main functionalities, to be able to create equipment lists and offers (including Software Maintenance Agreement) ▶ Know what marcom and sales tools are available and where to use the tools
Prerequisites	<ul style="list-style-type: none"> ▶ General Conference Knowledge
Target groups	<p>Recommended for:</p> <ul style="list-style-type: none"> ▶ Sales and Marketing

Conference and Discussion

DICENTIS – Technical Master



Short description	<p>The qualification as Master is achieved by:</p> <ul style="list-style-type: none"> ▶ Completing the Web-Based Training modules according to the Master Certification Training Plan ▶ Attending all training days of the classroom training ▶ Passing an Online Exam after the training <p>As there are web-based training courses as pre-requisites for this class please complete these before the end of the registration phase, otherwise your registration cannot be confirmed.</p>
Content	<p>The modules and topics that will be covered within this training plan are:</p> <ul style="list-style-type: none"> ▶ DICENTIS Product Overview ▶ OMNEO Designing ▶ OMNEO Fault Analysis ▶ DICENTIS Design Basics ▶ DICENTIS Software ▶ DICENTIS Advanced Design Training
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Know the features and limits of the individual DICENTIS type number ▶ Understand the different system types and their requirements ▶ Choose the right architecture: topology, re-using infrastructures, sharing traffic ▶ Know the steps required to design and deploy an OMNEO-based system ▶ Access security and reliability ▶ Know the OMNEO troubleshooting procedure ▶ Use network analysis tools ▶ Design a system taking the system limits into account ▶ Configure and Operate with the DICENTIS software ▶ Design medium and large systems
Prerequisites	<ul style="list-style-type: none"> ▶ The Web-Based Training included in the Master certificate Training Plan must be completed before the training
Target groups	<ul style="list-style-type: none"> ▶ System Integrators
Training Duration	4 days

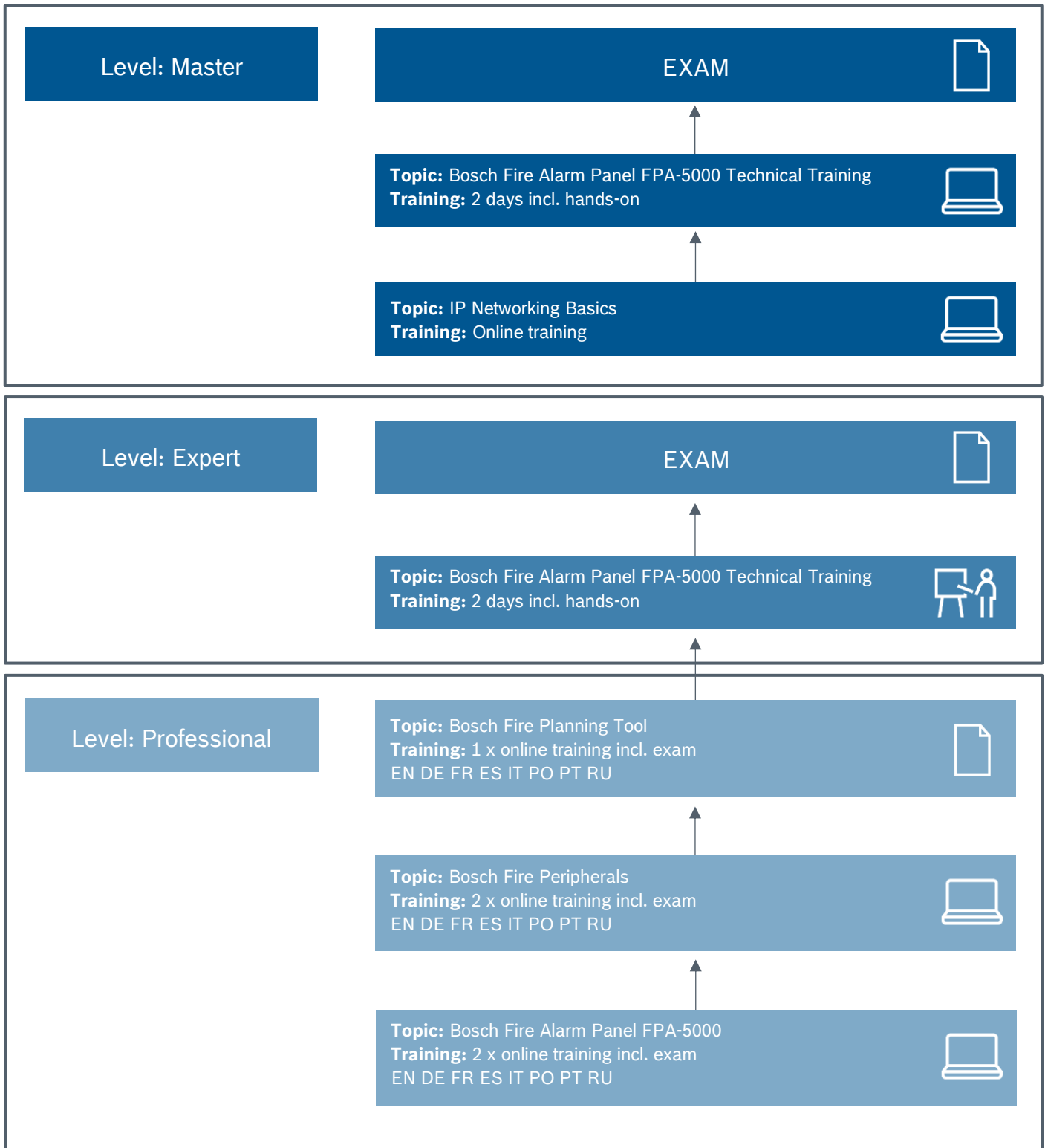
Conference and Discussion

Bosch Conference DCN Next Generation – Technical Master



Short description	<p>Comprehensive DCN Next Generation Master 5 day classroom training in Eindhoven, Netherlands, covering:</p> <ul style="list-style-type: none"> ▶ Stand Alone Single and Multi CCU2 (wired & wireless) ▶ Single PC & Multi PC Control (CCU2) ▶ Camera Control (CCU2) ▶ Integrus Language Distribution System <p>There will be an individual knowledge questionnaire after each training module</p>
Content	<p>The content that will be part of this classroom training is:</p> <ul style="list-style-type: none"> ▶ DCN Conference Solutions without PC Control ▶ Single-CCU2 ▶ Multi-CCU2 ▶ DCN Conference Solutions with PC Control ▶ DCN-SWSMV ▶ DCN-SW ▶ HD Camera Control Solutions ▶ DCN Conference Solutions third party interface possibilities ▶ INTEGRUS Language Distribution System
Learning targets	<p>By successfully completing this training the customer should have:</p> <ul style="list-style-type: none"> ▶ A full understanding of designing, installing and operating DCN Conference Solutions and First Line Services ▶ A basic understanding of designing, installing and operating DCN Conference Solutions with PC Control ▶ A full understanding of designing, installing and operating DCN Conference Solutions with Camera Control ▶ A basic understanding of Open interface (LBB4187), DCB-SWSMD and DCN-SWAPI ▶ A full understanding of designing, installing and operation of INTEGRUS Language Distribution System and First Line Services
Prerequisites	<ul style="list-style-type: none"> ▶ Basic knowledge of Conference Systems
Target groups	<ul style="list-style-type: none"> ▶ System Integrators
Training Duration	5 Days

Fire Overview



Languages are subject to availability (phased approach)

Fire

FPA-5000 Technical Professional Training Plan



Short description	<p>This training plan includes several topics and modules that will give you an overview of</p> <ul style="list-style-type: none"> ▶ The basic components of the Bosch Fire Alarm Panel FPA-5000 ▶ Different technologies and applications for Bosch Fire Detectors ▶ Different types of manual call points <p>You will also learn how to use the Bosch Planning Tool in your daily work.</p> <p>This training plan is available in the following languages:</p> <p>English / German / French / Spanish / Italian / Polish / Portuguese / Russian</p> <p>Please register to the Training Plan and open it afterwards in order to see the assigned individual Web Based Training (WBT) offering.</p>
Content	<p>This training plan will include:</p> <ul style="list-style-type: none"> ▶ Bosch Fire Alarm System FPA-5000 ▶ Bosch Fire Peripherals ▶ Bosch Fire Planning Tool
Learning targets	<p>By successfully completing this training plan the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Understand the modular concept of the FPA-5000 ▶ Get familiar with functional concept of LSN and basic structure of RPS ▶ Understand features and differences of Bosch products and learn about their technical data ▶ Create: <ul style="list-style-type: none"> ▶ Tender Texts ▶ Bill of Material ▶ Parts Lists ▶ Battery and Loop Calculations ▶ Price Estimations
Prerequisites	<ul style="list-style-type: none"> ▶ Basic Fire Knowledge
Target groups	<ul style="list-style-type: none"> ▶ System Integrators

Fire



Fire Alarm Panel FPA-1200/5000 Technical Training – Expert

Short description	<p>A 2 day Classroom training and online exam covering basic system design, programming and diagnostics procedures for the Bosch Fire Panel FPA-5000.</p> <p>In order to achieve the Technical Expert qualification the customer must attend all training days of the classroom trainings and pass a Web Based Exam after the Trainings.</p>
Content	<p>This training plan will include:</p> <ul style="list-style-type: none"> ▶ A Recap of Modular Content ▶ Redundancy ▶ Recap LSNi Basics ▶ LSN Advanced ▶ LSNi Test Tool ▶ “Do’s and Don’ts” Installation ▶ Maintenance ▶ Troubleshooting ▶ Simple Networking ▶ Hands-on Session ▶ Programming with RPS
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Have a general understanding of the FPA product family ▶ Design, install and program an FPA-1200/5000 system in stand-alone set-up
Prerequisites	<ul style="list-style-type: none"> ▶ Basic Fire Knowledge ▶ Completed FPA-5000 Technical Professional Training Plan
Target groups	<ul style="list-style-type: none"> ▶ Installers ▶ System Integrators
Training Duration	2 days

Fire



Fire Alarm Panel FPA-1200/5000 Technical Training – Master

Short description	<p>A 2 day Classroom training and online exam covering networking capabilities of the Bosch Fire Panel FPA-5000.</p> <p>In order to achieve the Technical Master qualification the customer must attend all training days of the classroom trainings and pass a Web Based Exam after the Trainings.</p> <p>The completion of the Web Based Training IP Networking Basics should also be completed at this time. (see page 12)</p>
Content	<p>This training plan will include:</p> <ul style="list-style-type: none"> ▶ RPS Advanced ▶ Complex, Network (CAN, IP, OPC) ▶ FSM ▶ Smart Safety Link (Integration to PRAESIDEO, PAVIRO)
Learning targets	<p>By successfully completing this training the customer should be able to:</p> <ul style="list-style-type: none"> ▶ Have a general knowledge about FPA-5000 networking and connection to FPA-OPC, Fire Evac and FSM-2500/5000 ▶ Install, configure and commission an FPA-5000 network
Prerequisites	<ul style="list-style-type: none"> ▶ Certificate Expert Level
Target groups	<ul style="list-style-type: none"> ▶ Experienced Electrical Design Engineers
Training Duration	2 days

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