



Bosch Building Technologies Academy Training Catalog 2022 Dear customer,

We would like to welcome you to our Bosch Building Technologies Academy. Within this catalogue you will have access to an overview of the various training courses that we offer.

We offer a broad range of training courses across various Business Units domain, such as:

- **Video Systems:** Imagine when you know what's next. You can respond before potential situations occur and predict new business opportunities. AloT video systems from Bosch deliver the Power to Predict, are built on trust, and support sustainable business practices.
- Intrusion and Access Control systems: Access management is an essential component of building security. It is the process of granting authorized users the right to enter certain buildings, areas and rooms, while preventing access to non-authorized users. Sounds simple, but today's market also wants access management systems that are easy to set up and use. Access management systems must also be easily scalable and able to integrate with other security domains like video and intrusion systems. And perhaps, most importantly, today's market wants access management systems that are highly resilient and always available.
- **Communication Systems:** Part of the Bosch Group, the Bosch Communications Systems family of brands offers the world's most complete portfolio of professional audio and communication solutions.
- **Fire Alarm Systems:** Keeping people safe is our first priority. In order to protect lives and property, it is vital to quickly locate, detect, verify and contain fires. Our fire detection systems stand for reliability, innovation, flexibility and the pioneering use of artificial intelligence worldwide.

This document is valid for 2022. Training and information provided can be subjected to changes, e.g. trainings may be cancelled in case there are not enough participants. For further details, please refer to the terms & conditions at our Bosch Building Technologies Academy, following this <u>link.</u>

If you wish to contact us, please do through this e-mail: <u>boschsecurity.training@bosch.com</u>



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Starting at Bosch Building Technologies Academy

As the first step, you need to register in the Bosch Building Technologies Academy. You can do that by clicking <u>here.</u>

BOSCH			Bosch Building Technolog	ies Academy
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		Curibanda BOSCH O DYNACORD	Electro-Voice RTS	TELEX
	User name *			
	Password *			
	Stay signed in Not R	registered yet ? egister now		
		Forgot password?		
		Login		

Please, whenever possible register with your commercial e-mail and address.



Types of training and classes



Online training courses

These types of training allow you to the tasks at your own speed. Just start whenever and wherever you like, pause when necessary, and continue where you left off.



Virtual classes

These classes are online and are given by a trainer. It has real-time interaction between students and trainer.



In person classes

These types of classes are in person. And they are usually set at one of our Bosch facilities.



Training Plans

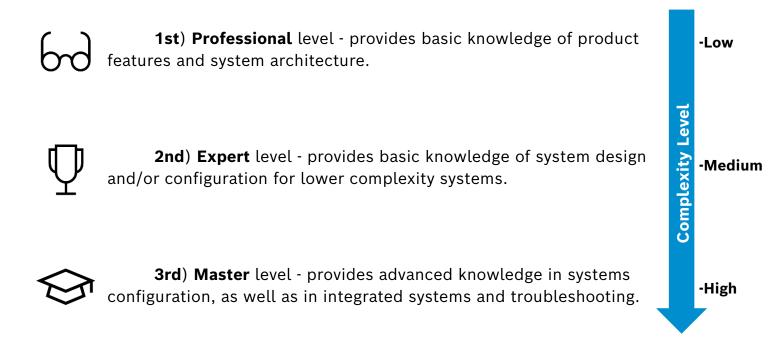
A set of courses grouped together to provide you with a more complete knowledge about a given subject. Most of our courses are organized in training plans.



Certifications and Recertifications

Certifications

These are a special kind of training plans. Carefully created to enable you to have the most complete knowledge about a product, taking into consideration the level of proficiency you need. The levels being:



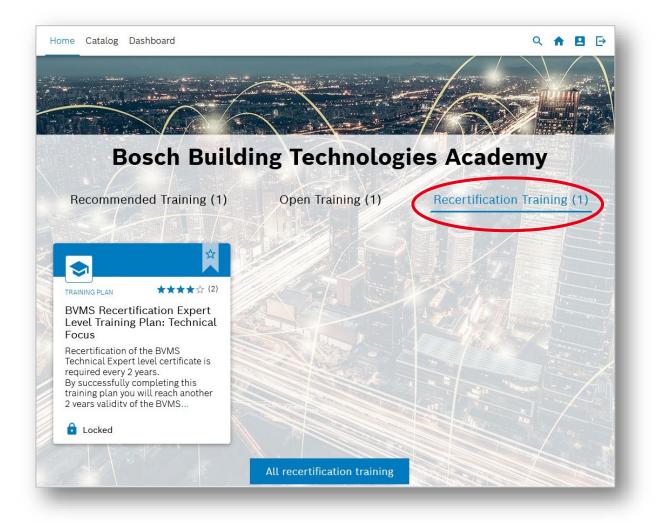
We are looking forward to soon having you **Certified** in one or more of our products!

) Take in consideration that you cannot start a higher level without completing first the lower ones.

Recertifications

Since we are always seeking to improve our products and services, it is important to keep you up to date. So, our certification expires after two year. After that, you obtain access to a recertification training which provides you all the information needed to stay updated. You have 1 year to do the recertification. And it's online and quick!

You can find the recertification training avaliable to you here:





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Types of Documents

We mainly have two types of documents:

		BOSCH
	CONFIRMATIO	
	John Smith ABC Company has completed the Bosch Building Technolog online training course	gy Products
	Date - 04/20/2020	
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You receive a **Confirmation of Completion** every time you complete online training courses, in person or virtual classes.

You receive a **Certificate** only when you complete all the courses and exams of Expert or Master certification level.



Booking Information

How to book an in-person or virtual class:

- Click on the link of the class in the calendar.
- Select the class you wish to register.
- Confirm the information and proceed with the registration.
- Get in touch with the sales contact of your country to make the payment.
- Check if there are any online prerequisites to be completed before attending the class.

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s	Location	Open seats	Status		· • =		
0/2021-08/12/2021	Virtual Room	Waiting list	Not registered	Details / Register	Home Cotalog Tutoring/Reports Doshboord Catalog > Booch Fire Alarm Systems > AVENAR pa		Q 🕈 🕞 🕬 🗸
7/2021-05/08/2021	Shatin, New Territories	3 registrations available	Not registered	Details / Register	Class details		
					Overview		
0/2021 - 10/20/2021	Milan	4 registrations available	Not registered	Details / Register	Course	AVENAR panel series training	Expert
					Code	F_I_F2_E_F_2007_AVEX/58	
3/2021 - 11/04/2021	Campinas, SP	10 registrations available	Not registered	Details / Register	Class title	Grasbrunn / 08102021	
					Location	Virtual Room	
/2021 - 11/17/2021	Shatio New Territorion	3 registrations available	Not registered	Details / Register	Price	600 EUR / person	
/2021-11/1//2021	shach, New Territories	o registrations avaitable	 Not registered 	Details / Negister	Open seats	Waiting list	
					Registration period	01/01/2021 • 08/06/2021	
					Status	Not registered	
					Schedules		
					Dates	Location	Trainer
					08/10/2021 08:00 AM - 11:00 AM	√ Virtual Room VirtualRoom-FIR Virtual Room● , Virtual Room	Ronald Marier
					08/11/2021 08:00 AM - 11:00 A	√ Virtual Room VirtualRoom•FIR Virtual Room● , Virtual Room	Ronald Marier
					08/12/2021 08:00 AM - 11:00 AM	√ Virtual Room Virtual Room● Virtual Room●	Ronald Marier

Please be aware that, usually, there are mandatory online training courses as prerequisites to be able to attend the in person and virtual classes. This will help you to fully focus on the complex content the classes offer, and you won't lose time dealing with basic information. Thus, this prerequisite exists in some training courses.

Also, please check if the training plan you are doing gives a certification if that's what you are trying to achieve. Some training plans only give a confirmation of attendance, so be aware of this.

The prices for in-person and virtual training are based on pricing for the full course. All prices exclude VAT.

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Calendar

Training			2022						
	Course to register	Training Plan with prerequisites	January	February	March	April	May	June	
	BIS Expert	Link		1-4 (virtual) (EN)	14-18 (virtual) (EN)		2-6 (virtual) (EN)	20-24 (virtual) (EN)	
AI	BIS Master	<u>Link</u>			21-25 (Virtual) (EN)				
	AMS Expert	<u>Link</u>	19-20 (virtual) (EN)	16-17 (virtual) (EN)	9-10 (virtual) (EN)	25-26 (virtual) (EN)	18-19 (virtual) (EN)	15-16 (virtual) (EN)	
	<u>BVMS</u>		25-28 (Eindhoven) (EN)	8-11 (Grasbrunn) (DE)	8-11 (Grasbrunn) (EN)	5-8 (Grasbrunn) (EN)	3-6 (Eindhoven) (EN)	28-30 (Grasbrunn) (EN)	
	Expert	<u>Link</u>		22-25 (Eindhoven) (EN)	22-25 (Eindhoven) (EN)	11-14 (Eindhoven) (EN)	17-20 (Grasbrunn) (DE)		
VS	<u>BVMS</u> <u>Master</u>	Link		23-25 (Virtual) (EN)					
	<u>Video</u> <u>Analytics</u>	<u>Link</u>		21-22 (Grasbrunn) (DE)	15-17 (Eindhoven) (EN)			8-10 (Eindhoven) (EN)	
	<u>Cyber</u> <u>Security</u>	Link			2-4 (virtual) (EN)	20-22 (virtual) (EN)	10-12 (virtual) (EN)	21-23 (virtual) (EN)	
	<u>AVENAR</u> Panel Series	Panel Series	19-20 (virtual) (EN)	14-15 (virtual) (DE)			9-10 (virtual) (EN)		
FIR	<u>Training -</u> <u>Expert</u>	<u></u>					30-31 (virtual) (DE)		
	<u>AVENAR</u> <u>Panel Series</u> <u>Training -</u> <u>Master</u>	Link	17-18 (virtual) (DE)	16-17 (virtual) (DE)			11-12 (virtual) (EN)	1-2 (virtual) (DE)	
CO	<u>Dynacord &</u> <u>Electro-</u> <u>Voice Install</u> <u>Training</u>	Link		21-23 (virtual) (EN)			16-18 (virtual) (EN)		



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	Course to register	Training Plan with prerequisites	January	February	March	April	Мау	June
	Dynacord & Electro-Voice Retail Training (Loud & Clear <u>Academy)</u>	<u>Link</u>					10-11 (Straubing) (EN)	
	PROMATRIX 9000 Master	<u>Link</u>			1-3 (virtual) (DE)	5-7 (virtual) (DE)		
	PROMATRIX 6000 Master	<u>Link</u>		22-24 (virtual) (DE)				21-23 (Straubing) (DE)
	PROMATRIX 8000 Master	<u>Link</u>						27-30 (Straubing) (DE)
co	PAVIRO Master	<u>Link</u>			15-17 (virtual) (EN)	25-27 (virtual) (DE)		14-16 (Eindhoven) (EN)
Ŭ	<u>IRIS-Net</u> <u>Expert</u>	<u>Link</u>			18 (virtual) (EN)	28 (virtual) (DE)		17 (Eindhoven) (EN)
	<u>PRAESIDEO</u> <u>Master</u>	<u>Link</u>				11-13 (Eindhoven) (EN)		
	<u>PRAESENSA</u> <u>Master</u>	<u>Link</u>		15-17 (virtual) (EN)	29-31 (virtual) (EN)		17-19 (Eindhoven) (EN)	28-29 (virtual) (EN)
	<u>DICENTIS</u> <u>Master</u>	Link			22-24 (Eindhoven) (EN)			21-23 (Eindhoven) (EN)
	DICENTIS Advanced System Design	Link			24 (Eindhoven) (EN)			23 (Eindhoven) (EN)



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	Training		2022						
	Course to register	Training Plan with prerequisites	July	August	September	October	November	December	
	BIS Expert	<u>Link</u>	18-22 (virtual) (EN)						
A	BIS Master	<u>Link</u>	25-29 (virtual) (EN)						
	AMS Expert	<u>Link</u>	6-7 (virtual) (EN)						
٨S	<u>BVMS</u> <u>Master</u>	<u>Link</u>	13-15 (Grasbrunn) (EN)						
>	<u>Video</u> <u>Analytics</u>	Link	11-12 (Grasbrunn) (DE)						
2	<u>AVENAR</u> <u>Panel Series</u> <u>Training -</u> <u>Expert</u>	<u>Link</u>			5-6 (virtual) (EN)		14-15 (virtual) (DE)	5-6 (virtual) (EN or DE)	
FIR	<u>AVENAR</u> <u>Panel Series</u> <u>Training -</u> <u>Master</u>	<u>Link</u>			7-8 (virtual) (EN)		16-17 (virtual) (EN)	7-8 (virtual) (EN or DE)	
	<u>Dynacord &</u> <u>Electro-</u> <u>Voice Install</u> <u>Training</u>	<u>Link</u>			26-28 (virtual) (EN)		21-23 (virtual) (EN)		
CO	PRAESIDEO <u>Master</u>	<u>Link</u>	19-21 (Eindhoven) (EN)						



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VIDEO SYSTEMS







Learning path - Bosch Video Systems Commercial Certification





Bosch Video Systems Commercial Certification

Short Description	This Training Plan includes Web Based Training Modules (WBT's) in order to gain essential knowledge about the Bosch Video camera portfolio.					
Content	 The power to predict Portfolio overview Exam 					
Target groups	 Sales Pre-Sales Design specialists 					
Duration	 3 hours 					

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Learning path - BVMS Commercial Certification



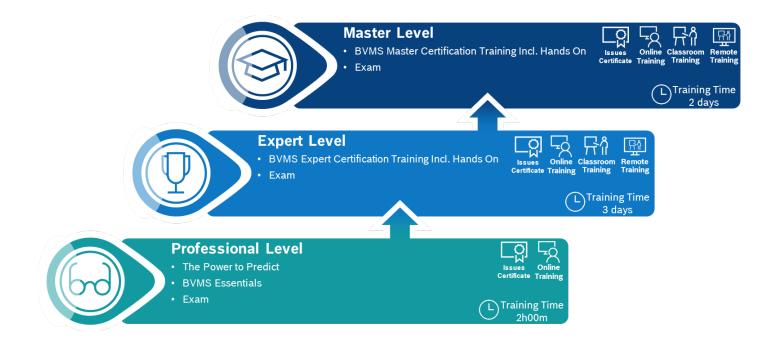


BVMS Commercial Certification

Short Description	This Training Plan includes several online trainings to get an in depth overview of the BVMS key benefits and essential system knowledge. You will learn how to design a BVMS system during the online training of the Expert level.					
Content	 Professional level: BVMS Key Benefits and Features BVMS Essentials Exam Expert level: BVMS Sales and System Design Exam 					
Target groups	 Sales Pre-Sales Design specialists 					



Learning path - BVMS Technical Certification





BVMS Technical Certification

Short Description	This Training Plan includes several online trainings to get the required prior classroom knowledge about the BVMS core components. During the virtual or classroom sessions you will learn how to install, configure and operate BVMS with the configuration client/ operation client. On the next higher level training you will learn how to configure advanced BVMS features and deployment options.					
Content	 Professional level: The power to predict BVMS Essentials Exam Expert level: BVMS Expert Certification Training Incl. Hands ON Exam Master level: BVMS Master Certification Training Incl. Hands ON Exam 					
Target groups	 Technician installers 					



Learning path - BOSCH Video Camera Technical Certification



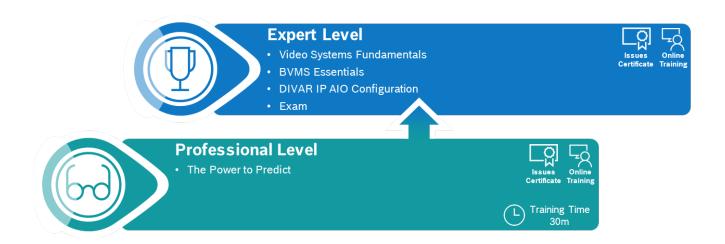


BOSCH Video Came	era Technical Certification
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Short Description	In this training we will explain how to configure a Bosch camera (single camera installation without use of a management software).
Content	 Professional level: The Power to Predict Expert level: Video Camera Expert Training
Target groups	Technicianinstallers



Learning path - BOSCH DIVAR IP AIO Technical Certification



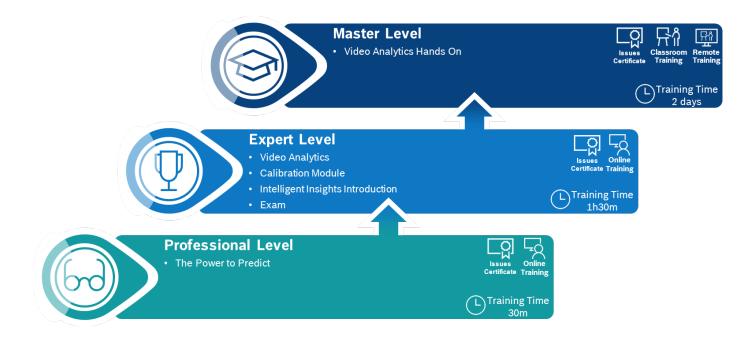


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Short Description	In this training we will explain how to configure a basic BVMS installation. This training is mainly recommended for our DIVAR IP AIO 5000 that are used in small installations.		
Content	Professional level:		
	The Power to Predict		
	Expert level:		
	 Video Systems Fundamentals 		
	BVMS Essentials		
	DIVAR IP AIO Configuration		
	Exam		
Target groups	 Technician installers 		



Learning path - BOSCH Video Analytics Technical Certification Training



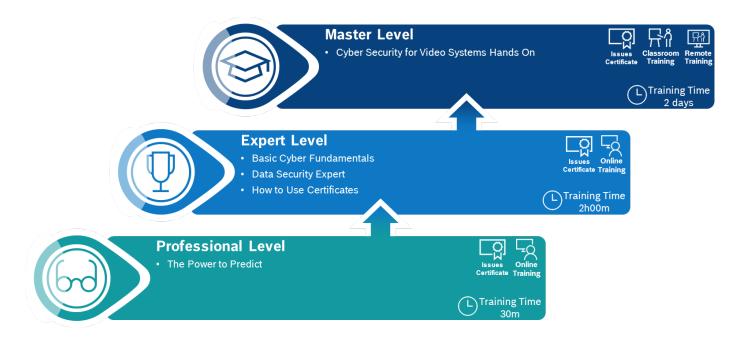
	BOSCH Video Analytics	Technical Certification Training
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Short Description	In this training we will explain how to design, setup and configure a video analytics solution from Bosch.
Content	 Professional level: The Power to Predict Expert level: Video Analytics Calibration Module Intelligent Insights Introduction Exam Master level: Video Analytics Hands On
Target groups	Technicianinstallers



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Learning path - Cyber (Data) Security Technical Certification Training



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Cyber (Data) Security Technical Certification Training

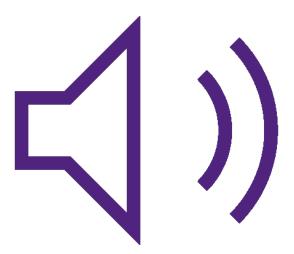
Short Description	This course introduces students to several aspects cyber security and how they pertain to IP Video systems today. Students will learn to analyze possible threats as well as how to lock down and reduce the attack surface of their IP video system.	
Content	 Professional level: The power to predict Expert level: Basic Cyber Fundamentals Data Security Expert How to Use Certificates Master level: Cyber Security for Video Systems Hands On 	
Target groups	 Technician installers 	



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COMMUNICATION SYSTEMS







Learning path – Acoustics Basics

Professional Level

- Acoustic Basics
- Acoustic Basics Signal Chain
- Acoustic Basics Room Acoustics
- Online Exam





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Short Description	This online training consists of 3 modules and aims to provide you an overview about basic acoustics knowledge for professional audio projects. A Professional Level Certificate will be available upon successful completion of this online training and exam.
Content	 The modules and topics that will be covered within this training certification level are: Acoustic Basics Acoustic Basics - Signal Chain Acoustic Basics - Room Acoustics Online Exam – Professional Level
Learning targets	 By successfully completing this training the student will be able to: Understand introductory concepts about acoustics and weight its importance in audio projects Perceive sound physics and its behaviors in enclosed rooms Identify all components in a professional audio signal chain
Prerequisites	There are no prerequisites for this certification level
Target groups	 Customers, End Users Systems Engineers and Consultants
Duration	• 2 hours



Learning path – Dynacord Install Electronics





Short Description	This online training consists of multiple modules and provides you with introductory knowledge on Dynacord electronics hardware and software components relevant for install sound partners. A Professional Level Certificate will be available upon successful completion of this online training and exam.
Content	The modules and topics that will be covered within this training certification level are:
	 MXE Matrix Engines – Product Training
	 Dynacord C Series Amplifiers Product Training
	 Dynacord IPX Series Amplifiers Product Training
	 Online Exam – Professional Level
Learning targets	By successfully completing this training the student will be able to:
	 understand C and IPX series amplifiers key features and technical details
	 identify elements on the MXE Matrix Mix Engine's front and rear panel
	• explain and use the semi-fixed Zone Mixer DSP signal flow
Prerequisites	There are no prerequisites for this certification level
Target groups	Customers, End Users, Sales Engineers & Consultants
Duration	• 1h30m



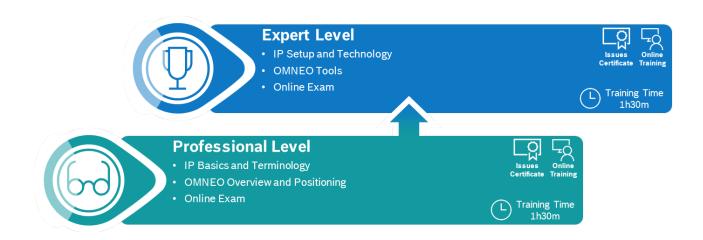
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Short Description	The online modules for this training bring concepts about system design and configuration for Dynacord electronics for install sound projects, aiming to give a more complete overview about these components, with their key features and systems applications. An Expert Level Certificate will be available upon successful completion of this online training and exam.			
Content	The modules and topics that will be covered within this training certification level are:			
	 MXE Matrix Engines System Training 			
	 Dynacord C Series Amplifiers System Training 			
	 Dynacord IPX Series Amplifiers System Training 			
	 SONICUE - Configuration & Control Software 			
	 Online Exam – Expert Level 			
Learning targets	By successfully completing this training the student will be able to:			
	 choose the right Dynacord C & IPX Series amplifiers models projects 			
	 design a highly economic, efficient and reliable sound system 			
	 describe how to choose the correct amplifier models based on system design examples 			
	 design a highly economic, efficient and reliable sound system with C series & IPX series amplifiers and MXE Matrix Mix Engine System 			
	 recognize the principles of SONICUE, configuration and control software 			
Prerequisites	 Dynacord Install Electronics – Professional Level 			
Target groups	 Install Partners, Sales Engineers & System Technicians 			
Duration	• 2h30m			



Learning path - OMNEO / Dante Networking





OMNEO / Dante Networking – Professional Level

Short Description	This training plan introduces IP networking on a basic level and gives an overview of OMNEO with its components and features. It will enable you to use the correct terminology when talking about networks and OMNEO. A professional Level Certificate will be available upon successful completion of this online training and exam.			
Content	The modules and topics that will be covered within this training certification level are:			
	 Addressing 			
	 Topologies 			
	 Cabling & Media 			
	 OSI Model 			
	 Unicast, Multicast and Broadcast 			
	 Online Exam – Expert Level 			
Learning targets	By successfully completing this training the student will be able to:			
	 understand the difference between a MAC and an IP address 			
	 understand the difference between broadcast, multicast and unicast data transmission 			
	 understand the basic principle of the OSI Model and be able to explain the differences of Layer 2 and Layer 3 based protocols 			
	 be able to identify and explain different network topologies 			
	 know the differences and benefits of different CAT cables and fiber optic cables 			
	 know which basic types of switches exist 			
	 understand the need for media networking 			
	 understand the benefits of open public standards 			
	 be able to explain OMNEO components and features on a basic technical level 			



Prerequisites	 There are no prerequisites for this certification level 		
Target groups	 Customers, End Users, Sales Engineers & Consultants 		
Duration	■ 1h30m		



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Short Description	This training plan offers an advanced introduction to IP addressing, TCP and UDP communication, OSI model, networking hardware and network configuration. Besides, it explains the three general OMNEO tools: OMNEO Control, OMNEO Firmware Upload Tool and Network Docent. An Expert Level Certificate will be available upon successful completion of this online training and exam.			
Content	The modules and topics that will be covered within this training certification level are:			
	 Addressing 			
	 Topologies 			
	 Cabling & Media 			
	 OSI Model 			
	 Unicast, Multicast and Broadcast 			
	 Online Exam – Expert Level 			
Learning targets	By successfully completing this training the student will be able to:			
	 understand the principles of IP addressing, the function of the Subnet Mask, and the role of Network ID and Host ID 			
	 learn which IP address classes, ranges and types exist 			
	 learn what Subnetting is and how to apply it 			
	 understand the functions of the OSI Layers 			
	 understand the differences between TCP and UDP communication 			
	 learn the most important switch configuration option 			
	 learn which switch types exist, their features and their hardware and software configuration options 			
	 learn how to use the OMNEO Control software 			
	 learn how to use the OMNEO Firmware Upload Tool 			
	 learn how to use the Network Docent software 			



Prerequisites	 OMNEO / Dante Networking – Professional Level
Target groups	 Customers, End Users, Sales Engineers & Consultants
Duration	■ 1h30m



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Learning path - Retail Partner

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 modules and topics that will be covered within this training ification level are: Dynacord & Electro-Voice Professional Systems Acoustic Basics
Basics
 Dynacord & Electro-Voice Professional Systems Acoustic Basics Signal Chain
 Dynacord L Series Amplifiers Product Training
 EVOLVE 50 and EVOLVE 30M Introductions
 Portable Speakers Portfolio Overview
uccessfully completing this training the student will be able to:
 understand introductory concepts about acoustics and weigh its importance in audio projects
• perceive the particularities of signal chain in audio systems
 have a comprehensive view about Electro-Voice and Dynacord solutions for retail market
• There are no prerequisites for this certification level
Retail Partners
 Sales managers with commercial & marketing focus
 Headphones (use also in the WBT)

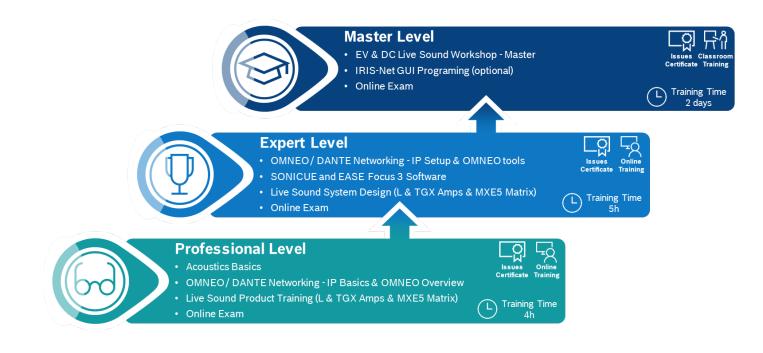
Short Description	The online modules for this training bring concepts about system design for Electro-Voice portable speakers and for Dynacord L series amplifiers, aiming to give a more complete overview about these components with their key features and systems applications.		
	The LOUD & CLEAR Academy (only available in Europe) is a classroom workshop that aims to give a more immersive experience to the participants with the Electro-Voice and Dynacord solutions for Retail Partners.		
Content	The modules and topics that will be covered within this training certification level are:		
	 Dynacord L Series Amplifiers System Training 		
	 Electro-Voice ZLX + ELX200 Demo Guides and Set-Up Examples 		
	 Electro-Voice EKX + ETX Demo Guides and Set-Up Examples 		
	 Electro-Voice EVOLVE 50 Demo Guide and Set-Up Examples 		
	 LOUD & CLEAR Academy 		
Learning targets	By successfully completing this training the student will be able to:		
	 contrast different applications for Electro-Voice portable speakers and Dynacord L-Series amplifiers 		
	 describe to choose the correct L amplifiers models for a project, based on system design examples 		
	 understand how to demonstrate Electro-Voice speakers and Dynacord L series amplifiers to various audiences 		
	 create different strategies to approach the customer with the solution which best suits their needs 		
Prerequisites	Retail Partner Training – Professional Level Certificate		
Target groups	Retail Partners		
	 Sales managers with commercial & marketing focus 		

Short Description	This classroom training brings an immersive and unique opportunity to increase the personal sales skills and to get more effective on the point of sale. The training will be conducted by a professional sales trainer.	
Content	The modules and topics that will be covered within this training certification level are: Motivational introduction to the theory and models within the color process 	
	 sales process Group discussions to deepen the knowledge Individual exercises and group tutorials to transfer the theory into the practice 	
Learning targets	 By successfully completing this training the student will be able to: learn the communication rules at the point sale, to guide the sales process, to get more satisfied customer by avoiding the advisor trap and to get positive re-confirmations for the buying decision o the customers 	
Prerequisites	 Retail Partner – Expert Level 	
Target groups	 Retail Partners Sales managers with commercial & marketing focus 	

*This training level is only available in Europe



Learning path – Live Sound Partner



Short Description	This online training consists of multiple modules and provides you with basic knowledge on Dynacord and Electro-Voice hardware and software components relevant for live sound partners.	
Content	The modules and topics that will be covered within this training certification level are:	
	 Dynacord & Electro-Voice Professional Systems Room Acoustics, Acoustic Basics & Signal Chain 	
	 Live Sound System Introduction and Portfolio 	
	 Dynacord L and TGX Series Amplifiers Product Training 	
	 Dynacord MXE5 Matrix Mix Engine Product Training 	
	 OMNEO / DANTE Networking – Professional Level (IP-Basics & DANTE / OMNEO overview) 	
Learning targets	By successfully completing this training the student will be able to:	
	 understand introductory concepts about room acoustics and weight its importance in audio projects 	
	 perceive the particularities of signal chain in audio systems 	
	 understand EV & DC Live Sound Systems portfolio 	
	 identify EV & DC electronics and software components applied for Live Sound Partners 	
	 show basic knowledge on IP Networks and Audio Networks and to know their relevance for live sound system applications 	
	 recognize OMNEO / DANTE features and advantages in the audio IP world 	
Prerequisites	There are no prerequisites for this certification level	
Target groups	Live Sound Partners	
	 Sound engineers & system technicians 	

Live Sound Partner -	Expert Level

Short Description	The online modules for this training bring concepts about system design and configuration for Electro-Voice and Dynacord Live Sour solutions, aiming to give a more complete overview about these components, with their key features and systems applications.			
Content	The modules and topics that will be covered within this training certification level are:			
	EASE Focus 3 Quick Start Guide			
	 Configuration and Control software introduction 			
	 Acoustic prediction software introduction 			
	 OMNEO / DANTE Networking – Expert Level (IP-Advanced & OMNEO tools) 			
	 System Design Examples with Dynacord L & TGX Series Amplifiers and MXE5 Matrix Mix Engine 			
Learning targets	By successfully completing this training the student will be able to:			
	 explain how to choose the correct amplifier models based on system design examples. 			
	 design a highly economic, efficient and reliable sound system with L series & TGX series amplifiers and MXE5 Matrix Mix Engine 			
	 understand principles of IP addressing, subnet masks and the role of network and host IDs in IP based networks 			
	 describe how to use and setup OMNEO / DANTE tools 			
	 recognize the principles of SONICUE (configuration and control software) 			
	 create a basic EASE Focus 3 project 			
Prerequisites	 There are no prerequisites for this certification level 			
Target groups	 Customers, End Users, Sales Engineers & Consultants 			

Live Sound	Partner -	Master	Level
		master	LCTCL

Short Description	This workshop brings an immersive and unique opportunity to master Electro-Voice & Dynacord Live Sound systems for live sound partners, including hands on experience on all hardware & software offerings for this audience.	
Content	The modules and topics that will be covered within this training certification level are:	
	 Electro-Voice and Dynacord Live Sound system setup and configuration 	
	 Electro-Voice and Dynacord Live Sound system tuning 	
	 Electro-Voice and Dynacord Live Sound advanced system operation 	
	 Electro-Voice and Dynacord Live Sound system examples 	
	 Electro-Voice and Dynacord Live Sound system troubleshooting 	
Learning targets	By successfully completing this training the student will be able to:	
	 commission an Electro-Voice and Dynacord Live Sound system 	
	 show how to troubleshoot an Electro-Voice and Dynacord Live Sound system 	
	 recognize the particularities and characteristics of Live Sound systems 	
	 explain the best practices to setup and configure a Live Sound system 	
	 understand the importance and complexity of tuning Live Sound systems 	
Prerequisites	 Live Sound Training – Expert Level Certificate (Online) 	
	 Own Laptop-PC with administration rights to be brought along to the training course 	
Target groups	Live Sound PartnersSound engineers & system technicians	



RTS TELEX

Learning path – Install Partner



Install Partner - Professional Level

Short Description	This online training consists of multiple modules and provides you with basic knowledge on Dynacord and Electro-Voice hardware and software components relevant for install partners.
Content	 The modules and topics that will be covered within this training certification level are: Dynacord & Electro-Voice Professional Systems Room Acoustics, Acoustic Basics & Signal Chain OMNEO / DANTE Networking – Professional Level (IP-Basics & OMNEO overview) Install Sound System introduction Dynacord C Series Amplifiers Product Training Dynacord IPX Series Amplifiers Product Training
	Dynacord MXE Matrix Mix Engines Product Training
Learning targets	 By successfully completing this training the student will be able to: understand introductory concepts about room acoustics and weight its importance in audio projects perceive the particularities of signal chain in audio systems describe the Dynacord and Electro-Voice electronics and software components designed for Install partners recognize basic knowledge on IP Networks and Audio Networks explain OMNEO / DANTE features and advantages in the audio IP world
Prerequisites	There are no prerequisites for this certification level
Target groups	 Install Partners Sales engineers & system technicians

Short Description	The online modules for this training bring concepts about system design and configuration for Electro-Voice and Dynacord Install solutions, aiming to give a more complete overview about these components, with their key features and systems applications.
Content	The modules and topics that will be covered within this training certification level are:
	 OMNEO / DANTE Networking – Expert Level (IP-Advanced & OMNEO tools)
	Dynacord C Series Amplifiers System Training
	Dynacord IPX Series Amplifiers System Training
	Dynacord SONICUE Introduction
	Dynacord MXE Matrix Mix Engines System Training
Learning targets	By successfully completing this training the student will be able to:
	 describe how to choose the correct amplifier models based on system design examples.
	 design a highly economic, efficient and reliable sound system with C series & IPX series amplifiers and MXE Matrix Mix Engine System
	 understand principles of IP addressing, subnet masks and the role of network and hots IDs
	 use and setup OMNEO / DANTE tools
	 recognize the principles of SONICUE, configuration and control software
Prerequisites	 Install Partner Training – Professional Level Certificate
Target groups	Install Partners
	Sales engineers & system technicians

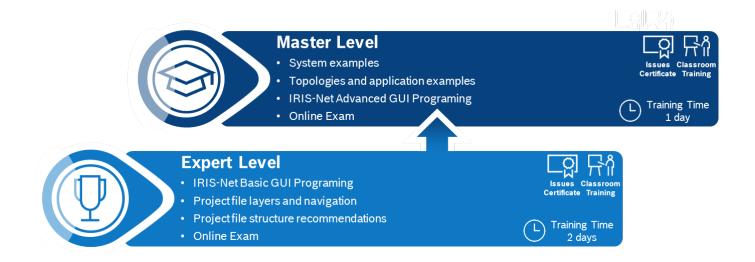
BOSCH		Ev Electro-Voice	RTS	TELEX
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Short Description	The System Design and Commissioning workshop as well as the System Programing workshop will bring an immersive and unique opportunity to master Electro-Voice & Dynacord System Design for install partners, including hands on experience on all hardware & software offerings for this audience.
Content	The modules and topics that will be covered within this training certification level are:
	Electro-Voice and Dynacord system design and examples
	Electro-Voice and Dynacord advanced system operation
	 Electro-Voice and Dynacord system programing and configuration
	Electro-Voice and Dynacord system commissioning and tuning
Learning targets	By successfully completing this training the student will be able to:
	 design an Electro-Voice and Dynacord fixed installed system
	 understand the importance and complexity of tuning fixed installation systems
	 show the best practices to program and configure a fixed installation system
	 determine the best practices for commissioning a installed system
Prerequisites	 Install Partner Training – Expert Level Certificate (Online)
	 Own Laptop-PC with administration rights to be brought along to the training course
Target groups	Install Partners
	 Sales engineers & system technicians



RTS TELEX

Learning path - IRIS-Net Basic GUI Programming



IRIS-Net Basic GUI Programming – Expert

Short Description	The comprehensive classroom training on basic GUI programming builds on IRIS-Net hardware classroom trainings and is applicable for customers who have attended such a training within the last 2 years.
Content	This training will include:
	 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	By successfully completing this training the student will be able to:
Learning targets	 By successfully completing this training the student will be able to: 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)
Learning targets Prerequisites	 understand the programming of IRIS-Net user interfaces using standard IRIS-Net elements (Controls/User Controls) and

IRIS-Net Advanced G	UI Programming – Master

Short Description	The Dynacord PROMATRIX 8000 Master classroom training provides the right environment to get the skills for advanced system programming and operation.The modules and topics that will be covered within this training certification level are:	
Content		
	 PROMATRIX 8000 component and system overview 	
	 System examples 	
	 Topologies and application examples 	
	Firmware Update	
	 Monitoring and spare function examples 	
	 Working with 100/70V relays, speaker zones, groups and audio signal priorities 	
	 Networked PROMATRIX 8000 systems 	
Learning targets	By successfully completing this training the student will be able to:	
	 understand, design, install and operate a PROMATRIX 8000 public address system 	
	 upgrade the system software 	
	 commission a PROMATRIX 8000 public address system 	
Prerequisites	 Promatrix 8000 Training – Professional Level 	
	 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 	
Target groups	EVAC PartnersSound engineers & system technicians	



RTS TELEX

Learning path – PRAESENSA

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Electro-Voice



*No need to redo the Online Training if already made in PRAESENSAProfessional and Expert Levels



TELEX

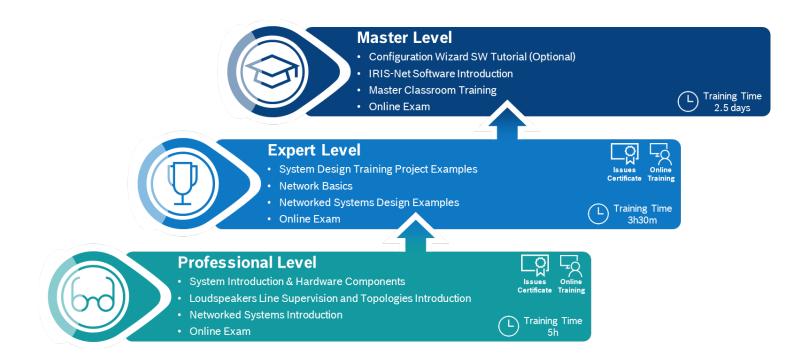
Short Description	This online training consists of multiple modules and aims to provide you an overview about Bosch PRAESENSA Public Address & Voice Alarm System hardware and software components. A Professional Level Certificate will be available upon successful completion of this online training and exam.
Content	 The modules and topics that will be covered within this training certification level are: OMNEO Networking – Professional Level (IP-Basics & OMNEO overview)
	 The PRAESENSA System – What's New?
	System controller
	 Amplifiers
	 Multifunction power supply
	Call stations
	 Software
	Accessories
Learning targets	By successfully completing this training the student will be able to:
	 identify system hardware and software components
	 understand system connectivity and features
	 perceive the unique particularities which makes PRAESENSA a state of the art and future proof Public Address & Voice Alarm System
	 explain Network & Power design consideration
	 show knowledge on IP Networks and Audio Networks
Prerequisites	 Bosch Public Address PA basics – Professional Training
Target groups	 Systems Integrators, Distributors, Installers, Specifiers, Consultants, Sales and Marketing & End Users

Short Description	This online training brings concepts about system design and configuration for Bosch PRAESENSA Public Address & Voice Alarm System, aiming to give a more complete overview about these components, with their key features and systems applications, us project examples to show how to build up a Bill of Materials according to the project requirements. An Expert Level Certificate be available upon successful completion of this online training an exam.	
Content	The modules and topics that will be covered within this training certification level are:	
	 OMNEO Networking – Expert Level (IP-Advanced & OMNEO tools) 	
	 System design approach 	
	 System planning tool 	
	Amplifier selection	
	 Power design 	
	Network design	
	 3rd party network devices 	
	 System design examples 	
Learning targets	By successfully completing this training the student will be able to:	
	 recognize and be able to use broader and more in depth knowledge on IP Networks and Audio Networks 	
	 show how to use and setup OMNEO tools 	
	 understand the particularities of designing a Public Address System and Voice Evacuation System 	
	 specify a PRAESENSA system according to the project requirements and turn this specification into a Bill of Material 	
Prerequisites	 Bosch PRAESENSA Public Address & Voice Alarm System Professional Level (online training) 	
Target groups	 Systems Integrators, Distributors, Installers, Specifiers, Consultants, Sales and Marketing 	

Short Description	This classroom or remote training brings an immersive and unique opportunity to master Bosch PRAESENSA Public Address & Voice Alarm System, including hands on experience on all hardware & software offerings for complete programing and operation of the system. A Master Level Certificate will be available upon successful completion of this classroom training and online exam.
Content	The modules and topics that will be covered within this training certification level are: System components
	 Installation and uploading of the Firmware
	 Configuration and hands-on
	 PRAESENSA network basics
Learning targets	By successfully completing this training the student will be able to:
	 configure and commission a Bosch PRAESENSA Public Address & Voice Alarm System
	 recognize how to update system firmware for the respective hardware components
	 setup all Hardware and Software components simulating real live system for different projects
Prerequisites	 PRAESENSA Public Address & Voice Alarm System – Professional Level (online training)
	 PRAESENSA Public Address & Voice Alarm System – Expert Level (online training)
Target groups	 Systems Integrators, Distributors, Installers and Consultants



Learning path - PAVIRO



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	The modules and topics that will be covered within this training certification level are:
	 PAVIRO System Introduction (V2)
	PAVIRO Controller, Amplifier, Router & Call Station
	 PAVIRO Loudspeaker Topologies Introduction & Line Supervision
	PAVIRO Networked Introduction
Learning targets	By successfully completing this training the student will be able to:
	 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 according to application requirements
	 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	There are no prerequisites for this certification level
Target groups	EVAC Partners
	 Sales and marketing staff of customers, consultants, specifiers



TS TELEX

Short Description	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: Shopping Centre School Hotel Sports Centre Networked Systems It also includes a Network Basics WBT
Learning targets	 By successfully completing this training the student will be able to: transfer technical and functional project requirement specifications into a correct system design and turn it into a Bill of Materials
Prerequisites	 PAVIRO Training - Professional Level
Target groups	EVAC PartnersConsultants, System Designers



TS TELEX

Short Description	The PAVIRO Master Training course on advanced system programming and operation is the highest qualification level available on this product line. This training plan consists of Web-Based Trainings and Classroom Training. This training also qualifies you as an IRIS-Net Technical Professional
Content	The modules and topics that will be covered within this training certification level are:
	 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 100/70V 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	By successfully completing this training the student will be able to:
	 full understand design, install and operate a PAVIRO public address system
	 upgrade the system software
	 commission a PAVIRO public address system



Prerequisites	 PAVIRO Training - Expert Level Own laptop with admin rights and installed IRIS-Net and Configuration Wizard Software have to be brought along to the training.
Target groups	EVAC Partners
	 Installers



Learning path – PRAESIDEO



PRAESIDEO – Professional Level

Short Description	This web-based training plan gives you an overview on the PRAESIDEO system and its main functions.
	This course is pre-requisite to attend a classroom training.
Content	The modules and topics that will be covered within this training certification level are:
	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	By successfully completing this training the student will be able to:
	 Understand the basics of the PRAESIDEO system and should be ready to participate in the PRAESIDEO Classroom Training
Prerequisites	 Basic knowledge of electronics, acoustics and public address systems.
	Optional: PA Basics Online Training

PRAESIDEO – Master Level	
Short Description	Technical Master Classroom Training on PRAESIDEO System Programming and Operation.
	The course is applicable for students who have already reached Professional Level.
Content	The modules and topics that will be covered within this training certification level are:
	Operating Principles
	 Install and upgrade to the latest SW release + Off-line configuration tool
	Configuring the PRAESIDEO System
	 Messages and assembling message sets
	 Powering, back-up powering, power consumption and batter charger
	Ethernet connection and local/remote access
	Storing vital system data. 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
	 Designing a PRAESIDEO System
	 Hands-on configuring a PRAESIDEO System
Learning targets	By successfully completing this training the student will be able to:
	Know the PRAESIDEO product range
	 Select PRAESIDEO products and make a system design
	 Upgrade system software
	Configure a PRAESIDEO System
	 Use the additional SW packages for PRAESIDEO
	Commission a system



Electro-Voice **RTS TELEX**

Prerequisites	 The WBT included in the Master certification Training plan need to be completed prior to the training start
	 Broad experience in PA is required.
	 For Persons with limited experience, who are active in PA business the PA-Basics Classroom and Web-based trainings are strongly recommended



Learning path – PLENA MATRIX

Professional Level

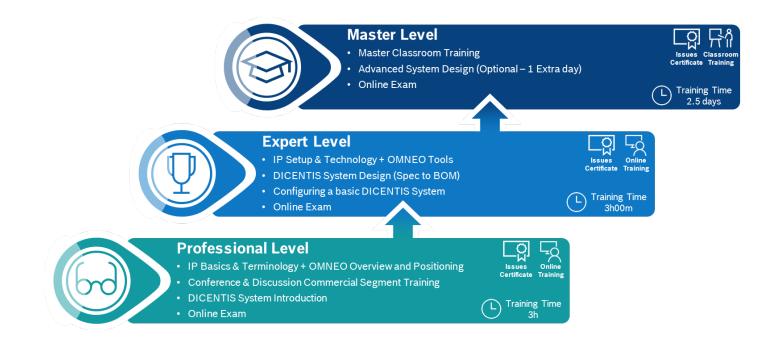
- System Introduction & HW Installation
- Matrix Mixer PC Graphical User Interface
- Amplifier Graphical User Interface
- Online Exam



Short Description	This Web-Based Training contains an introduction to the PLENA Matrix system and its hardware components as well as the Loudspeaker and topologies and networking functions.
Content	The modules and topics that will be covered within this training certification level are:
	PLENA Matrix System Introduction
	 Hardware Installation Introduction
	 Matrix Mixer PC Graphic User Interface (GUI)
	 Amplifier, Graphic User Interface (GUI)
	 System Knowledge Assessment
Learning targets	By successfully completing this training the student will be able to:
	 give an overview of the PLENA Matrix system
	 describe the hardware setup and the application of the PLENA Matrix devices
	 understand how to setup and operate the Matrix Mixer PC Graphic User Interface
Prerequisites	There are no prerequisites for this certification level
Target groups	 EVAC Partners Sales and marketing staff of customers, consultants, specifiers
Duration	 2 hours



Learning path – DICENTIS





TELEX

DICENTIS – Professional Level

Short Description	This online training consists of multiple modules and aims to provide you an overview about Bosch DICENTIS Conference & Discussion System hardware and software components. A Professional Level Certificate will be available upon successful completion of this online training and exam.
Content	The modules and topics that will be covered within this training certification level are:
	 OMNEO Networking – Professional Level (IP-Basics & OMNEO overview)
	 The DICENTIS System – applications
	 Central equipment
	 Discussion devices
	Microphones
	Interpreter desks
	Software
	 Accessories and Installation Equipment
	Basic system overview
Learning targets	By successfully completing this training the student will be able to:
	 Recognize system hardware and software components
	 Understand system & components features
	 Identify system connectivity
	 Describe a basic system overview
	 Show knowledge on IP Networks and Audio Networks
Prerequisites	 There are no prerequisites for this certification level
Target groups	 Systems Integrators, Distributors, Installers, Specifiers, Consultants, Sales and Marketing & End Users



DICENTIS - Expert Level

TELEX RTS

Short Description	This online training brings concepts about system design and configuration for Bosch DICENTIS conference system, aiming to give a more complete overview about these components, with their key features and systems applications, using examples to show how to build up a Bill of Materials according to the project requirements. An Expert Level Certificate will be available upon successful completion of this online training and exam.
Content	 The modules and topics that will be covered within this training certification level are: OMNEO Networking - Expert Level (IP-Advanced & OMNEO tools) System design approach System calculation tool
	Device selectionNetwork designSystem design examples
Learning targets	 By successfully completing this training the student will be able to: recognize and be able to use broader and more in depth knowledge on IP Networks and Audio Networks show how to use and setup OMNEO tools understand the particularities of designing a DICENTIS Conference System specify a DICENTIS system according to the project requirements and turn this specification into a Bill of Materia
Prerequisites	 Bosch DICENTIS Conference System – Professional Level (online training)
Target groups	 Systems Integrators, Distributors, Installers, Specifiers,

Consultants, Sales and Marketing



DICENTIS – Master Level			
Short Description	This classroom training brings an immersive and unique opportunity to master Bosch DICENTIS Conference & Discussion System, including system design, hands on experience on all hardware & software offerings for complete programing and operation of the system. An Master Level Certificate will be available upon successful completion of this classroom training and online exam. Note: parts of this training will be transferred to an web based training in the course of the year.		
Content	The modules and topics that will be covered within this training certification level are:		
	 System design approach 		
	System calculation tool		
	System Licensing		
	Discussion device selection		
	 Network design 		
	 System design exercises 		
	System components		
	 Installation and uploading of the Firmware 		
	Configuration and hands-on		
	 Explanation and hands-on on all available functions 		
Learning targets	By successfully completing this training the student will be able to:		
	 configure a Bosch DICENTIS Conference System 		
	 recognize how to update system firmware for the respective hardware components 		
	 setup all Hardware and Software components simulating real live system for different projects and scenarios 		
Prerequisites	 Bosch DICENTIS Conference System – Expert Level (online training) 		
Target groups	 Systems Integrators, Distributors, Installers and Consultants 		

TELEX



Learning path - RTS Intercom Full Range Training





RTS Intercom Full Range Training - Professional Level

Short Description	This online training consists of multiple modules and aims to provide you an overview about RTS Intercom hardware and software components. A Professional Level Certificate will be available upon successful completion of this online training and exam.		
Content	The modules and topics that will be covered within this training certification level are:		
	 Intercom basics 		
	RTS Intercom Product Portfolio		
	 OMNEO Networking - Professional Level (IP Basics & OMNEO Overview) 		
	 RTS Configuration Software Overview 		
	 Online Exam – Professional Level 		
Learning targets	By successfully completing this training the student will be able to:		
	 Understand the basic concepts about Intercom system 		
	 Recognize RTS Intercom product family and its applications 		
	 Explain OMNEO features and advantages in the audio IP world 		
	 Recognize basic knowledge on IP Networks and Audio Networks 		
	 Understand RTS Configuration Software suite key features to setup RTS Intercom Digital Matrixes Systems 		
Prerequisites	 There are no prerequisites for this certification level 		
Target groups	 Broadcast & Theatre audio engineers + Intercom users 		



RTS Intercom Full Range Training - Master Level

Short Description	This classroom training brings an immersive and unique opportunity to master RTS systems, including hands on experience on all hardware & software offerings for different audiences. As an optional module, this classroom training provides a Commercial Sales Training		
Content	The modules and topics that will be covered within this training certification level are:		
	 Hands on different RTS Intercom Matrices 		
	 RTS Intercom Keypanels 		
	 IPEdit and AZEdit setup on live systems 		
	 ADAM and ADAM-M cards 		
	Port Allocation		
	 RTS Trunking 		
	RTS Intercom Accessories		
	 Integration with third party system 		
	Commercial Sales Training:		
	 RTS Intercom System differentiators 		
	 How to beat competition 		
	 RTS Intercom Innovations and opportunities 		
Learning targets	By successfully completing this training the student will be able to:		
	 Commissioning of Full Range RTS Intercom Systems 		
	 Show RTS Intercom system integration with third party systems 		
	 Understand different system sizes and complexities 		
	 Describe RTS Intercom system positioning in the market 		
Prerequisites	 RTS Intercom - Expert Level Certificate (Online) 		
Target groups	 Sales engineers & systems technicians 		



RTS TELEX

Learning path - TELEX Radio Dispatch

Master Level

- Telex Dispatch Classroom Training Master
- Telex Dispatch Practical Exam



TELEX Radio Dispatch - Master Level

Short Description	This classroom training brings an immersive and unique opportunity to master TELEX Radio Dispatch systems, including hands on experience on a wide variety of hardware & software offerings.		
Content	The modules and topics that will be covered within this training certification level are: Review of networking terms, protocols, architecture, and 		
	 security Review of networking requirements and considerations for TELEX Radio Dispatch systems 		
	 Review design and layout considerations for C-Soft dispatch screens 		
	 Review system design considerations and best practices 		
	 Hands on system programming, hardware configuration and setup 		
	 Hands on system troubleshooting 		
	 Practical Exam – Master Level 		

BOSCH		Electro-Voice	RTS
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Learning targets	By successfully completing this training the student will be able to:
	 Setup an RoIP network including application and use case considerations
	 Demonstrate an understanding of direct IP interfaces for P25 DFSI/CSSI, NEXEDGE, and DMR/AIS along with encryption options
	 Demonstrate an understanding of control station interfaces including supported radios, features, and signaling
	 Demonstrate radio gateway modes of operation (local, console, tone and crosspatch)
	 Demonstrate management of hardware devices, including firmware upgrades, using Telex System Manager (TSM)
	 Correctly setup radio gateway(s) and audio interfaces
	 Correctly identify requirements, install, and license C-Soft including options
	 Correctly design and program a C-Soft based system including the SIP interface
	 Correctly align and test a dispatch system using Telex hardware and software
	 Demonstrate knowledge of radio system troubleshooting including IP network and C-Soft programming
Prerequisites	 RTS Intercom - Expert Level Certificate (Online)
Target groups	 Sales engineers & systems technicians

TELEX



RTS TELEX

ACCESS CONTROL AND INTRUSION SYSTEMS



ΑΙ



Quick note:

Ev Electro-Voice

G Series and MAP will only be available on demand and therefore will not be on this catalog.

TELEX

RTS

Learning path - Bosch Building Integration System (BIS) technical certification



Short Description	Completing this Training Plan, you will be able to work with a BIS system as administrator and carry out several customizations of the system in order to serve the majority of individual end-user requirements.		
Content	 Professional level: IP Networking basics Access Modular Controller (AMC) Access control readers and credentials BIS Engines Expert level: BIS Expert training Exam Master level: BIS Master training Exam 		
Target groups	 Technician installers 		



Learning path - Bosch Access Control Systems Technical Certification



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Bosch Access Control Systems Technical Certification

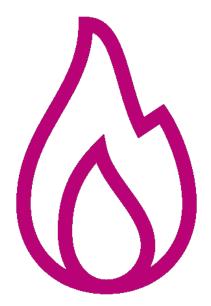
Short Description	Completing this Training Plan, you will be able to work with a BIS system as administrator and carry out several customizations of the system in order to serve the majority of individual end-user requirements.	
Content	 Professional level: IP Networking basics Access Modular Controller (AMC) Access control readers and credentials Technical introduction WBT's Expert level: AMS Expert training Exam 	
Target groups	Technicianinstallers	



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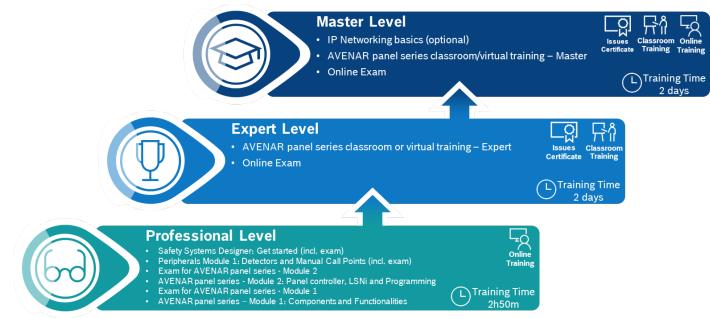
FIRE ALARM SYSTEMS







Learning path - AVENAR panel series



* also applicable for FSO-4000

Short Description	 The online modules of the Professional level will give you an overview about: The basic components of the Bosch AVENAR panel series; Different technologies and applications for Bosch Fire Detectors; Different types of manual call points. You will also learn how to use the Bosch Safety Systems Designer in your daily work. Completing the Professional online modules is the prerequisite to continue with your AVENAR panel series Expert Certification including classroom or virtual trainings. Upon passing, you will receive a confirmation of completion.		
		Content	 Modules included: AVENAR panel series
		Learning targets	 By successfully completing this training the customer should be able to: Understand the modular concept of the AVENAR panel series 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
Prerequisites	Basic Fire Knowledge		
Target groups	System Integrators		

AVENAR panel series Technical Certification, Expert Level

Short Description	The Expert level modules include a 2-day classroom or virtual training and an online exam.
	You will learn about basic programming and diagnostics procedures for the AVENAR panel series. This level does not include networking capabilities of the AVENAR panel series. Please refer to the Master level modules for this topic. Upon passing, you will achieve the AVENAR panel series Certification on the level Expert.
Content	Topics included in the classroom / virtual trainings: Recap of Modular Concept Recap LSNi Basics LSN Advanced LSNi Test Tool "Do's and Don'ts" Installation Maintenance Redundancy Programming with RPS Troubleshooting Simple Networking Hands-on sessions
Learning targets	 By successfully completing this training the customer should be able to: have a general understanding of the AVENAR panel series and design install and program an AVENAR panel 2000 or 8000 system in stand-alone set-up.
Prerequisites	 Basic Fire Knowledge Completed AVENAR panel series Professional level
Target groups	InstallersSystem Integrators
Duration	• 2 days

AVENAR panel series Technical Certification, Master Level

Short Description	The Master level modules include an optional online training (IP Networking Basics), a 2-day classroom or virtual training and an online exam. You will learn about the networking of the AVENAR panel series. Upon passing, you will achieve the AVENAR panel series Certification on the level Master.
Content	 Topics included in the classroom / virtual trainings: Complex networks (CAN, IP, OPC) Connection to FSM Smart Safety Link (Integration to Praesideo, Paviro) RPS Programming advanced: application of rules over AVENAR panel series network Hands-on sessions
Learning targets	 By successfully completing this training the customer should be able to: understand the basics of AVENAR panel networking to install, configure and commission an AVENAR panel series network and establish a connection to AVENAR panel-OPC, Praesideo/Paviro and/or FSM-2500.
Prerequisites	 Completed AVENAR panel series Professional and Expert modules
Target groups	 Experienced Electrical Design Engineers
Duration	• 2 days

AVENAR panel series: What's new – for certified FPA-5000 users

This training plan is for customers with a profound knowledge of and experience with the FPA-5000 fire alarm panel. The **pre-requisite is an FPA-5000 training certificate** from the Bosch Building Technologies Academy.

Short Description	 This training plan gives an overview of the new features and characteristics of the AVENAR panel series compared to the FPA-5000 fire alarm panel. It contains an online training and an online exam about the new AVENAR panel series. Upon passing, you will receive the AVENAR panel series Certificate on the level Expert.
Content	 Modules included: Online training: AVENAR panel series: What's new - for certified FPA-5000 users. Gives an overview of the new features and characteristics of the AVENAR panel series, consisting of the AVENAR panel 2000 and AVENAR panel 8000. This module is for experienced and certified FPA-5000 users only! Online Exam
Learning targets	 By successfully completing this training the customer should be able to: understand the main differences between AVENAR panel series and predecessing FPA panel series know the new and updated features and functionalities of the new series understand the user interface (UI) of the new panel controller learn about the new settings of the programming software FSP-5000-RPS
Prerequisites	 FPA-5000 Expert training certificate from the Bosch Building Technologies Academy. If you do not have an updated certificate, please contact your local Bosch sales office. Or e-mail us at <u>TrainingFire.ST@de.bosch.com</u> to learn how to obtain an updated certificate.
Target groups	 System Integrators

Additional online trainings

You can find more comprehensive tutorials and online trainings under the category Fire Alarm Systems in the Bosch Building Technologies Academy on topics like:

- Video based fire detection
- Remote Services
- Safety Systems Designer

Make sure that you do not miss the online training **"Basics of video fire detection"** to learn about our innovative fire and smoke detection camera – **AVIOTEC IP starlight 8000.**