

How to become a KNX certified training centre?



www.knx.org





Why become a KNX certified training centre?

- KNX is approved as a:
 - European Standard (CENELEC EN 50090 and CEN EN 13321-1)
 - International Standard (ISO/IEC 14543-3)
 - Chinese Standard (GB/T 20965)
 - US Standard (ANSI/ASHRAE 135)
- Many schools / training centres, companies already offer KNX courses
 - These courses are however not certified by KNX
- Promote your training centre via the KNX webpages
- Certification = business opportunity for your training centre
- Certification = skilled KNX integrators on the market





Types of certified KNX Training Centres

- KNX certified training centre: can organize basic courses
- KNX+ certified training centre: can organize basic and advanced courses





Content of Certified KNX courses

Certified KNX Courses

Three different KNX course levels have been standardized by KNX Association with the following content:

types	KNX Basic Course	KNX Advanced Course	KNX Tutor Course
Topics	 KNX System Arguments KNX Communication KNX TP1 Topology KNX TP1 Telegram KNX Bus Devices KNX Bus Devices KNX TP1 Installation KNX Powerline PL110 ETS Project Design: Basic ETS Project Design: Advanced (informative) ETS Commissioning ETS Diagnostics 	 Fail-safe planning Flags Heating Integrated applications Interworking Couplers Lighting Control Security Technology Logic Operations Visualization systems Supplementary tools 	 KNX Requirements for Training Centers Structure and Scope of KNX Association KNX Software History of Bus Systems Serial data transmission - KNX Protocol Microcontrollers Application program IP Communication KNX Certification Scheme for Products
Exams	TheoreticalPractical	Practical	Theoretical
Certificate	KNX Partner	KNX Advanced	KNX Tutor





Requirements – Basic course (1)

Tutor qualifications

- KNX Tutor may be internal or external person
- Theoretical as well as practical part of basic course shall be organized by KNX certified tutor
- Where?



- At KNX++ certified training centres. The complete list of KNX++ certified training centres can be found here: <u>http://www.knx.org/knx-en/community/training-</u> <u>centres/list/index.php</u>
- Crash course of 3-5 days (including exam) organized by KNX Association from time to time:
 - At the premises of KNX Brussels
 - Proof of KNX knowledge is needed
 - Special requirements: Please contact <u>christian.stahn@knx.org</u>



Requirements – Basic course (2)

KNX Hardware (fixed or mobile)

- KNX Power supply
- KNX Push buttons
- KNX devices for:
 - Dimming
 - Switching
 - Shutter control
 - Line coupler







Requirements – Basic course (3)

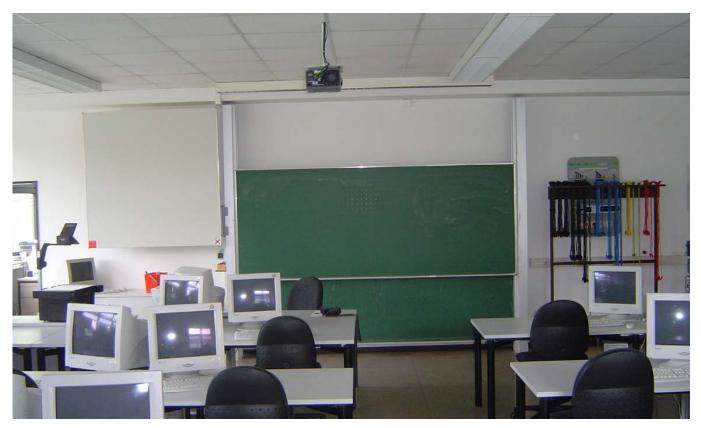
- KNX software :
 - ETS5 Professional or ETS5 Lite for each registered training rig
 - ETS5 Professional per KNX tutor \rightarrow MUST
 - ETS5 Lite Licenses for the students
 - If students will bring own laptop:
 - Student can buy ETS5 Lite licenses (60 EUR)
 - TC can buy ETS5 Lite license for student (50 EUR or 60 EUR).
 - *If PC = property of training centre:*
 - TC can buy ETS5 Lite license for training centre (50 EUR or 60 EUR)
 - Maximum two students can be trained at the same time on 1 training rig
 - *E.g. training 10 students = 5 training rigs*



Requirements - Basic course (4)

Facilities:

• Large image projection (e.g. beamer)







KNX Hardware:

- Individual room control
- Fan coil actuator
- Logical modules (standalone or part of other available equipment)
- Input devices with monitored cables or alarm system with certified KNX interface
- Weather station







1000 EUR

333 EUR

250 EUR

Advantages for the training centre (1)

 Considerably reduced price for ETS5 Professional license:

- ETS5 for regular customers:
- ETS5 for KNX certified TC (non ISO):
- ETS5 for KNX certified TC (ISO):
- ETS5 Lite licenses students:
 - If students buy own dongle: 60 EUR
 - If fixed computers in training centres: 50 or 60 EUR
- Existing ETS4 licenses are upgraded to ETS5 free of charge



- Free access KNX Basic course training documentation:
 - Chinese, English, French, German, Greek, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Swedish, Turkish
- Free access KNX Advanced course training documentation:
 - English, German and Spanish
- Free access to the electronic version of the exam statements:
 - More than 700 theoretical True/False statements
 - Standardized practical exam



Advantages for the training centre (3)

 Use of the KNX Training logo (on website, letter headed paper, envelopes, business cards,...)





Advantages for the training centre (4)

Free publicity in the KNX Journal (100.000 copies)





KNX Association International

KNX: The worldwide STANDARD for home & building control

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Advantages for the training centre (5)

 Free <u>KNX Marketing Material</u> for students Right to attend the KNX Training Centre Conference organized by KNX Association

https://www.knx.org/knx-en/events/index.php





Advantages for the training centre (6)

Right to hand out KNX certificates

KNX Training Center – DOHA AM Al Mazroui-ICAS Certificate **VR** Rajeesh From India Born on December-06-1983 Has successfully attended the **KNX Basic course with concluding exam** The KNX Basic Course was organized at the above mentioned KNX Training Center. The course consisted of: KNX System Arguments KNX Communication KNX TP1 Topology KNX TP1 Telegram LNX Bus Devices KNX PL 110 KNX TP1 Installation ETS Planning Basic ETS Commissioning ETS Diagnostics Duration: March 3 to March 7, 2013 Doha, Qatar. March 7, 2013 lead of Training Center

KNX The worldwide STANDARD for home and building control







Advantages for the training centre (7)

- Your training centre will be listed on the KNX website:
 - <u>https://www.knx.org/knx-en/community/training-</u> <u>centres/list/index.php</u>

About	Find KNX Training Centres						
ind KNX Training Centres	Find the Certified KNX Training Centre that is close country.	er to you. By clicking t	the field "Country" you o	an sort the Training Centres by			
	KNX Training Centres in						
Become a KNX Training Centre	All Countries •						
	Show KNX Training Centres offering:						
	KNX Basic Course KNX Advanced Course KNX Tutor Course						
	Name Search Search						
	Training Centre Name						
	ABCDEFGHIJKLMN	OPQRST	UVWXYZ	#			
	Total: 395 Training Centres						
	Training Centre	C	ountry				
	1. C.						
	01 Digital - KNXCenter	Sp	ain				
	360.MGSU	Ru	ssian Federation				
	A						
	ABB Australia Pty. Ltd	Au	stralia				



Advantages for the training centre (8)

 Promote your upcoming courses to potential customers directly on the website but also in MyKNX <u>https://www.knx.org/knx-en/training/knx-certified-</u> courses/knx-upcoming-courses/index.php

troduction	KNX Upcoming Courses			
NX Basic course	Country Course type	_71		
NX Advanced course	All Countries • all	•		
KNX Tutor course	Choose Language Date all languages			
KNX Upcoming courses				
	Training Centre	Course type	Country	Date
	Thomas More Mechelen	Basic	Belgium	27.01 03.02.2017
	Heinrich Hertz Schule	12h practica	Germany	28.01 04.02.2017
	Handwerkskammer Potsdam, Zentrum für Gewerb	Basic	Germany	30.01 03.02.2017
	Randwerkskammer zu Leipzig Bildungs- und Tech	Basic	Germany	30.01 03.02.2017
	Jung Electro Iberica, S.A.	Basic	Spain	30.01 03.02.2017
	Hager SAS	Advanced	France	30.01 03.02.2017
	Instaver	Advanced	Netherlands	30.01 03.02.2017
	Artman Smart Energy Solutions	Basic	Iran, Islam	30.01 02.02.20 <mark>1</mark> 7



Business Opportunity

- Extend your training activities
- Training fee not established by KNX
- Become the first certified KNX training centre in your region / country.
- Training does not have to be organized on-site but can also take place off-site (other region, country, continent...)







Normal ETS5 Lite license = 200 EUR

- Student receives voucher of 140 EUR -> only needs to pay the additional 60 EUR
- Successful exam: voucher of 185 EUR
- Upgrade ETS5 Lite -> ETS5 Pro: normal price 800 EUR
- When use of 185 EUR voucher, upgrade costs: 615 EUR
- ETS5 Pro for students 675 EUR instead of 1000 EUR



Advantages for the student / partner (2)



 All students receive a KNX Partner certificate after a successful exam. With this KNX certificate they can apply for KNX partnership and use the KNX Partner logo.







Advantages for the student / partner (1)

Partner will be listed on KNX webpages

- Business opportunity for KNX partner
- Web pages are visited by several thousand of visitors each day

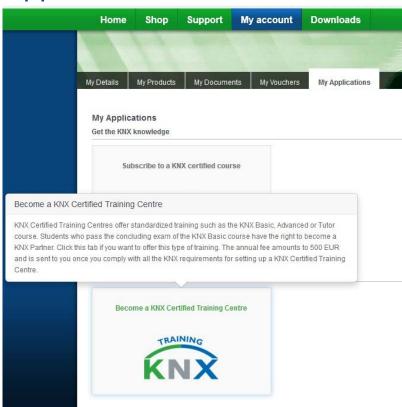
	1 and	19/10		-	4		
Manufacturers	Partners Training Centres	Scientific Partners	Userclubs Natio	nal Groups	Associated Partners	Test Labs	Lances P
	-						
About	Find KNX Pa	artners					
ind KNX Partner						All and a second second second	sed a KNX Certified Course.
			artners that chose not not to be shown on th		ir data on the map/list.	Please not	te that we don't show any
lecom <mark>e a KNX P</mark> a							
	If you are a KNX I	Partner and you wist	h to change your visibi	ity status (v	isible or not visible) clic	k here.	
	Show on a ma	ip 🔘 Show as a list					
	Albania (12)		Estonia (26)		Latvia (33)		Qatar (69)
	Algeria (19)		Ethiopia (1)		Lebanon (76)		Réunion (19)
	Andorra (35)) +	Faeroe Islands (1)		Liechtenstein (21)		Romania (107)
	Angola (8)	-	Finland (274)		Lithuania (61)		Russian Federation (378)
	Argentina (5)	7)	France (2375)		Luxembourg (130)		Saint Barthélemy (3)
	Armenia (3)	-	French Polynesia (8)	58	Macedonia (25)	1	Saudi Arabia (169)
	Australia (17	7) 🔛	French Southern		Madagascar (1)	-	Senegal (1)
	🚍 Austria (3816	6) Terr	itories (3)	(m)	Malaysia (121)		Serbia (65)
	🔤 Azerbaijan (2	25)	Georgia (7)	-	Maldives (1)		Singapore (188)
	Bahrain (28)		Germany (15285)	7	Malta (8)	0	Slovakia (70)
	Bangladesh	(10)	Gibraltar (1)	111	Martinique (11)	6	Slovenia (61)
	Belarus (18)		Greece (1054)		Mauritius (16)		South Africa (51)
			Concentration (4)		Mariles (00)		Onnia (5070)





How to apply?

• Login to your MyKNX account (menu: my account, my applications – Become a KNX Certified Training Centre)





Become an official KNX Training Centre 3. Activities 2. Employees 4. Requirements 1. Details In order to become an official KNX Training Centre, please fill in carefully and then submit the application. Training Centre details The following information is fetched from your account details. If this information is incorrect, please go to 'My details' to update it. My KNX login KNX195613 Name Moroyal AV solutions Oroke Drive 13B Address 01234 Lagos Island City Country Nigeria Phone +41.588223319 Email haryordayley@yahoo.com Website

Invoice information

Please select the invoice information you want to use for this order.

 Moroyal AV solutions Oroke Drive 13B Lagos Island Nigeria 	Add New Address	
		Back



Become an official KNX Training Centre

1. Details	2. Employees	3. Activities	4. Requirements
Employee overview			
Please fill in the number of	f employees		
Total in Training Centre		4	
		· •	

Contact persons / KNX Tutors

Please specify the conta	ict persons from your Training C	entre	Please specify the KNX Tutors of y	our Training Centre
KNX Login	Role	+Add person	KNX Login	+Add KNX Tutor
KNX195613	Director	× ×	KNX195612	×



ties in which your training centre is involution of the second seco	ved	
 At your own premises 	ved	
At other premises		

Logo







KNX Equipment	(Accreditation for	basic courses)
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				Which KNX devices are currently available for orga	nizing KNX Basic courses?		
ecome an official KNX Training Centre 1. Details 2. El	mployees	3. Activities	4. Requirements	Manufacturer	Name of the product	Order number	+ Add product Quantity
hich type of training do you want to offe aining				How many fixed or mobile KNKX training rigs have y (mobile) training rigs for a etiling up a KNKX certified heumber of fixed training rigs Number of mobile training rigs Upload attachments			iote that you need at least two
Basic	Advanced	Tutor		Pictures of the practical training rig. i.e. a d Copies of delivery notes and/or invoices of		nd a picture showing the set-up of th	e training rigs in the classroom,
Basic 12h practical - KNX exam	Advanced	_ τι	itor		Drag and Drop file (or click here)		
	Basic			None selected			
Theory on-site	V			ETS Licenses			
Practical on-site				In order to organize KNX Basic courses a Training Are the students allowed to bring own laptops to		ional License which has to be instal	lied on the tutor's PC.
Theory online				the KNX Basic course? Does your Training Centre already own the required ETS Professional license?	Yes No		
Practical online				Media equipment	 Yes ✓ Flip chart Beamer Other 		
O 9001 Certification				Agreement			
Is your Training Centre certified according to ISC 9001 (including domain 'training')?	D No			Please confirm that you have read and agreed the Current agreement version	TC requirements before you can submit the	application to KNIX.	

O Yes



If application is complete

- Offer of 500 EUR is put in your MyKNX Account
- Once paid: TC will be visible on website
 - TC will be able to organize courses for one year
 - TC can extend "subscription" in its MyKNX account
 - Extension up to 6 years
 - TC can download the electronic version of the training documentation / KNX training centre logo
 - TC can create courses so that students can subscribe to the courses
 - TC remains visible on website even if extension date has expired

KNX Certification procedure – potential student

How to apply?

Login to your MyKNX account (menu: my account, my applications – Subscribe to a KNX certified course)



My Applications

Get the KNX knowledge





KNX Certification procedure – potential student

My Details	My Products	My Documents	My Vouchers	My Applications	2	
Register	for a course					
1. Se	lect course		2. S	elect Training Centre	3. Confirmation	
I do not	have a course co	de from the Training	Centre.			
	Basic					
○ I have re	eceived a course o	code from the Trainin	a Centre			





KNX Certification procedure – potential student

Register for a course

1. Select course	2. Select Training Centre	3. Confirmation
Please search a Training Centre		
Search		
Country	Germany	v
Lecture language	All languages	~
Documentation language	All languages	~
	Search	

Training Centre	City	Address	Course	Start date 🔺	End date	
Handwerkskammer zu Leipzig Bildungs- und Technologiezentrum	Borsdorf	Steinweg 3	Basic	14/09/2015	18/09/2015	Subscribe
Q Berker GmbH & Co. KG	Schalksmühle	Klagebach 38	Basic	14/09/2015	18/09/2015	Subscribe
Q Dewies GmbH	Mönchengladbach	Damaschkestr. 9	Basic	28/09/2015	02/10/2015	Subscribe
Q ETZ Stuttgart	Stuttgart	Krefelder Straße 12	Basic	19/10/2015	23/10/2015	Subscribe



KNX Certification procedure – potential student

Course details		Course schedule									
Course type	Basic	<	>	today	September 2015			month week day			
Maximum students	9	W	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
Notes		36	31	1	2	3	4	5	6		
Lecture type (theory)	Offline										
Lecture type (practical)	Offline	37	7	8	9	10	11	12	13		
Lecture language	German										
Training documentation language	German	38	14	15			18	19	20		
Exam type	Online		08:00 KND 08:45 KND	08:00 KNX 10:00 KNX	08:00 KND 10:00 KND	08:00 KN> 10:00 KN>	08:00 KND 09:00 KND				
Exam language	German		10:00 KND 11:30 KND	12:30 KNX 13:30 KNX	10:30 KND 12:30 KND	11:00 KNX 12:30 KNX	10:00 KN) 10:30 KN)				
Tutors	Günther Rennert -		12:30 KNX	13:30 KNX 14:30 KNX	12:30 KN0 13:30 KN0	12:30 KNX 13:30 KNX	10:30 KND 12:30 KND				
	rennert_guenther@web.de		13:30 KND 14:30 KND		14:30 KND	14:30 KND	13:00 KND 14:30 KND				
Fraining Centre details		39	21	22	23	24	25	26	27		
Training Centre	Handwerkskammer zu Leipzig	1									
	Bildungs- und Technologiezentrum	40	28	29	30	1	2				
Address	Steinweg 3	41	5	6	7			10	1		
City	Borsdorf										
Country	Germany										
Phone	+49.3429130158										



KNX Certification procedure – potential student

Register for a course 2. Select Training Centre 1. Select course 3. Confirmation Subscription details Course identifier BAS/2015/8194 Tutors Günther Rennert Email: rennert_guenther@web.de Course Basic Training Centre Handwerkskammer zu Leipzig Bildungs- und Start date 14/09/2015 Technologiezentrum Steinweg 3 End date 18/09/2015 Borsdorf Lecture type (theory) Offline Germany Lecture type (practical) Offline Phone +49.3429130158 Training documentation language German Exam type Online Exam language German

As soon as you press the "Confirm" button you will request to be subscribed to this course. The training centre will be informed about your request and will contact you if necessary.

Please note that you cannot cancel your subscription request once you have pressed the "Confirm" button. If you want to cancel your subscription, please contact the training centre.

Please note that you and your company have the possibility to be listed as a KNX partner on the KNX website (www.knx.org) once you have passed the exam of the Basic course. If you do not want to be listed as a KNX partner on the KNX website, please uncheck this field.

Visible on website





Overview

Why become a KNX certified training centre? **Types of certified KNX training centres Requirements for organizing KNX basic course Requirements for organizing KNX advanced course** Advantages for KNX training centres **Advantages for the students** KNX Certification Procedure Costs Contact



Costs for Certification

Symbolic annual fee of 500 EUR





Overview

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Contact / Documentation

Contact:

- Tel: +32.(0)2 775 86 53
- Email: <u>certification@knx.org</u>

More info:

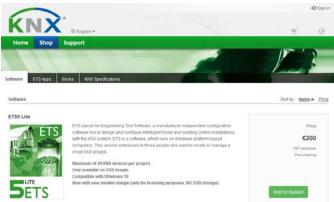
- https://www.knx.org/knx-en/community/partners/about/index.php
- <u>https://www.knx.org/knx-en/community/training-</u> centres/joining/index.php
- <u>https://www.knx.org/knx-en/training/books-documentation/knx-association-books/</u>



More info needed?



Visit the KNX Website



Order our tools in MyKNX



Brochures and presentation in our download section

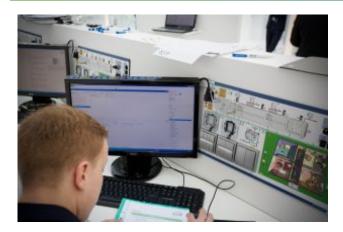


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http://www.knx.org | http://my.knx.org



Start@KNX



Enrol in our KNX Webinars



Follow a Certified KNX Course

DET

Discover ETS5 via the eCampus



Join an Online Training Program More info: http://start.knx.org



Join the worldwide KNX community





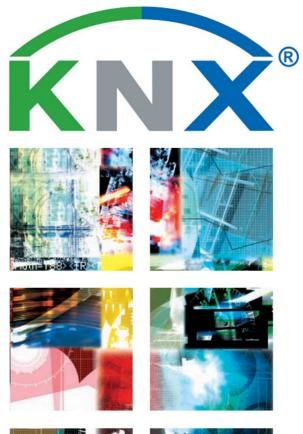
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Thank you for your attention!

