



How to become a **Certified KNX Training Centre**



What is a Certified KNX Training Centre

Many training centers around the world have in the past years decided to offer training courses on home and building control systems to their students, as they quite rightfully see the technology as the future of conventional installation techniques.

Many of the above training centers have again quite rightfully decided to focus on KNX, the worldwide standard for Home and Building Control, complying with ISO/IEC 14543-3.

For those training centers that offer training courses meeting requirements set by the KNX Association in Brussels, it is possible to apply for KNX certification. KNX Association operates this Certification Scheme for Training Centres, in order to ensure minimum requirements of all institutions operating the „KNX Course“ (or similar courses) throughout the world.

In this way, anyone anywhere in the world, interested in the KNX technology, can apply to attend KNX certified training at one of the in the mean while *more than 300 training centres in 56 countries*, where he/she is sure that the same standardized minimum KNX knowledge will be conveyed.



Advantages of becoming a Certified KNX Training Centre

- Right to hand out KNX certificates to students after successful exam, after which they can apply for *KNX partnership*
- *ETS Lite* for your students once registered for the course
- *Rebates* for your students when purchasing ETS licenses
- Considerably reduced price for ETS Professional licenses used in the KNX certified courses
- Access to constantly updated electronic *KNX training documentation*.
- Use of the *KNX Training logo* (on letter headed paper, envelopes, business cards)
- Listing of center in *KNX International Database* that can be consulted via the KNX Association web pages (if desired).
- Free publicity in the *KNX Journal* upon application
- Free copies of the *KNX Journal* for distribution to students
- Right to participate to the *KNX Training Centre Conference* organized by KNX Association



Types of Certified KNX Training Centres

Training Centers can apply for following types of KNX certification:

- **KNX certified training centre:** training centre with or without ISO-9001 certification, which is accredited by KNX Association for the *organization of basic courses*.
- **KNX+ certified training centre:** training centre which is accredited by KNX Association for the *organization of basic as well as advanced courses*.
- **KNX++ certified training centre:** training centre which is accredited for the *organization of tutor 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	<ul style="list-style-type: none"> ✓ KNX System Arguments ✓ KNX System overview ✓ KNX TP Topology ✓ KNX TP Telegram ✓ KNX Bus Devices ✓ KNX TP Installation ✓ KNX Powerline PLI 10 (informative) ✓ KNX RF (informative) ✓ ETS Project Design: Basic ✓ ETS Project Design: Advanced (informative) ✓ ETS Commissioning ✓ ETS Diagnostics 	<ul style="list-style-type: none"> ✓ Fail-safe planning ✓ Flags ✓ HVAC Control with KNX ✓ Integrated applications ✓ Interworking ✓ Coupler ✓ Lighting Control ✓ Security Technology ✓ Logic Operations ✓ Visualisation systems ✓ ETS Apps ✓ KNX & Multimedia ✓ KNX & Smart Metering 	<ul style="list-style-type: none"> ✓ 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	<ul style="list-style-type: none"> • Theoretical • Practical 	<ul style="list-style-type: none"> • Practical 	<ul style="list-style-type: none"> • Theoretical
Certificate	KNX Partner	KNX Advanced	KNX Tutor

Requirements

Tutor knowledge

It is indispensable that a KNX certified internal or external tutor conducts the theoretical and practical part of the KNX basic course. Please consult the KNX web pages to find which KNX training centres are offering KNX tutor courses

KNX equipment

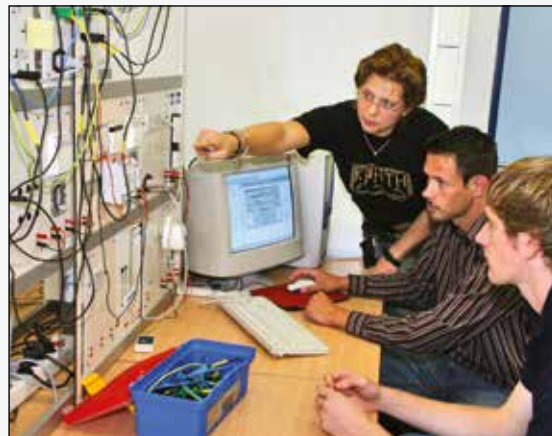
At least two (mobile) training rigs containing devices that are suitable for realizing the following functions:

- Switching
- Dimming
- Shutter control
- Coupling of two TP lines (couplers shall be available for each (mobile) training rig)

Media equipment

KNX courses shall be conducted in rooms equipped with at least:

- Computer(s): the tutor shall at any rate have a personal computer with an ETS Professional license. On the student's PC at least an ETS Lite shall be installed, either licensed by the training center itself or the ETS Lite available upon course registration installed by the student on his/her laptop.
- Projector
- Flip chart
- Etc.



Berufsbildende Schule Metalltechnik • Elektrotechnik der Region Hannover

Cost

A symbolic annual cost per certified KNX Training Centre of 500 EUR is charged.



The KNX Certification procedure for Training Centres

Phase	Phase explanation
Registration	In order to become a KNX certified training centre, the interested training centre completes the online application in his personal MyKNX account (menu: My Account – My Applications – Become a KNX Certified Training Centre).
Certification	KNX Association grants the respective KNX certificate after successful assessment of the requested documentation (i. e. KNX tutor certificate, photos and invoices of training rigs and media equipment).
Surveillance	The continuous compliance of the training centre to the KNX certification program is checked on the basis of the completed online satisfaction surveys that are filled out by the KNX students.

Registration

Certification

Surveillance



Contact

For further information, do not hesitate to contact KNX Certification Department via:

Tel: +32.2.7758590

Email: certification@knx.org

For more information visit:

- <http://www.knx.org/knx-en/community/training-centres/about/index.php>
- <http://www.knx.org/knx-en/community/training-centres/joining/index.php>
- <http://www.knx.org/knx-en/community/training-centres/list/index.php>