

## VDI Schoolings, Bundesverband Wärmepumpe e.V (BWP), Hall 4A, Stand 301

Background:

VEREIN DEUTSCHER INGENIEURE	Heizungsanlagen mit elektrisch angetriebenen Wärmepumpen in Ein- und Mehrfamilienhäusern Planung, Errichtung, Betrieb Schulungen, Prüfungen, Qualifizierungsnachweise Heating systems with electrically driven heat pumps in single and multi-family houses Planning, construction, operation Trainings, examinations, certifications of qualification	VDI 4645 Blatt 1 / Part 1  Ausg. deutsch/englisch Issue German/English
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The guideline VDI 4645 deals with the steps required for the planning of heat pump systems in single-family and multi-family houses, from the preliminary investigation and concept creation to the detailed planning.

It provides information on recommended hydraulic circuits, dimensioning of system components, documentation, commissioning of the system and instruction of the operator, and also on cost considerations.

The annex to the guideline contains checklists and examples to support the planning procedure. The sensible interaction with other system components, such as other heat generators, heat storage, distribution and transfer, is also considered. VDI 4645 Part 1 also provides a training concept that formulates different training categories (installer E, planner P, planner and installer PE), which provide the persons to be trained with the necessary knowledge in addition to the technical requirements.

The target groups of the training courses are primarily planners, system manufacturers and skilled craftsmen, but also operators or product developers in the manufacturing industry.

BWP supports the VDI in developing the training concept. BWP consultant Alexander Sperr is a member of the VDI committee "Quality assurance of heat pump training", which oversees the training concept. BWP Marketing & Service GmbH is a qualification partner and, among other things, creates and supervises the online testing tool and the register of tested specialist tradesmen.

## **Your advantages:**

Qualification according to VDI 4645 is voluntary, but makes a decisive contribution to quality assurance. Avoid planning and installation errors and in this way not only increase customer satisfaction, but also save time in troubleshooting. Personnel qualified by VDI training partners stand out from the competition in terms of expertise. If the online exam is passed, participants receive the qualification certificate "Expert for heat pump systems according to VDI 4645" in the respective category.

In the event of a legal dispute, they have the security of knowing that they have obtained the appropriate qualification, as the syllabus is backed up by the process of reaching a consensus in accordance with VDI 1000 and can therefore be seen as part of a generally recognised rule of technology.

## **Specialist heat pump company**

<https://www.waermepumpe.de/fuer-handwerker/fachbetrieb-waermepumpe/>

The "Specialist heat pump" seal of approval makes quality in the heat pump trade visible and is a decision-making aid for end customers.

The seal is awarded to companies that have proven that their employees are sufficiently qualified through training and examinations and have established a high standard of quality in installation and service in their company.

When applying for the seal of quality, the specialised company must fulfil requirements in the following areas:

- Quality requirements (training, knowledge)
- Performance promise (quality management, advice, service)

Companies that are registered in the trade register and can demonstrate experience or knowledge in the field of heat pumps are eligible to apply.



Membership of the Bundesverband Wärmepumpe e.V. (German Heat Pump Association) and the signing of a performance pledge are mandatory.