

Training Expert

Duration: 8 hours, from 09:00 am to 05:00 pm (including coffee and lunch breaks)



The CadnaA expert training imparts in-depth knowledge of the calculation settings and modelling techniques for special situations involving sources and obstacles. Topic related modelling and calculation issues are thoroughly discussed, also with regards to the applied standards and guidelines.

The training has been designed in such a way that participants will practice every topic by means of simple **CadnaA** files.

Essential information

Target user group	Training methodology	Training materials
CadnaA users who completed the CadnaA Advanced training or equivalent knowledge.	<ol style="list-style-type: none"> 1. Short introduction to the topic 2. Practice step-by-step 3. Explanation by the trainer 4. Summary and Short Q&A 	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> CadnaA License on the latest version <input checked="" type="checkbox"/> CadnaA Training book (pdf format) <input checked="" type="checkbox"/> CadnaA Files <input checked="" type="checkbox"/> Training Certificate (pdf format)

Contents*

<p>Advanced concepts of sound calculation</p>	<p>Acceleration techniques: Max. search radius, Max. error, grid interpolation, partition</p> <p>Calculation settings for the Digital Terrain Model (DTM), Ground Absorption, K0 and Reflections</p> <p>Use of calculation templates</p>
<p>Expert modelling: noise sources</p>	<p>Determination of sound power levels: from measurements, openings, indoor levels, moving machinery and from technical parameters.</p> <p>Modelling of radiating buildings</p> <p>Modelling loudspeaker systems</p> <p>Modelling open structures</p> <p>Modelling sports & leisure sources (tennis, pickleball)</p> <p>Operating time</p>
<p>Expert modelling: special objects</p>	<p>Special barriers: cantilevered barriers, floating barriers, barriers considering transmission.</p> <p>Modelling chimneys / stacks</p> <p>Modelling bridges</p> <p>Modelling tunnels</p> <p>The 3D-Reflector: modelling reflective porches or roofs</p>
<p>Special results</p>	<p>Evaluation of sound-proof windows</p> <p>Calculation and auralization of the Pass-by level</p> <p>Barrier optimization</p> <p>Multiple source effect</p>
<p>Uncertainty of evaluation levels</p>	<p>Contributions to the overall uncertainty of results</p> <p>Calculation of the uncertainty with CadnaA</p>

* The contents of the training as well as the duration of each topic may be different depending on specific requests or interests of the attendees