

Training **Expert Level** Industry / Road

The CadnaA Expert Trainings are organized for a specific noise type or topic and impart in-depth expert knowledge. Topic related modeling 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 and feature by means of simple CadnaA files.

WHO SHOULD ATTEND?

Requires the prior attendance to the CadnaA Advanced Training or equivalent knowledge

TRAINING WORKFLOW

1. Introduction to the topic / exercise by the trainer
2. Trainees complete the exercise step by step
3. The trainer repeats the exercise
4. Short Q&A and summary

MATERIALS

- CadnaA License on the latest version
- CadnaA Training book (pdf format)
- CadnaA Files
- Official Training Certificate

Contents*

Industrial Modelling – Sound Power Levels	<p>Determination of Sound Power Levels from:</p> <ul style="list-style-type: none"> Measurements, Openings Indoor levels Moving machinery Technical parameters <p>Sources in steady— state and with specific operating time</p> <p>Directivity of noise sources</p>
Special industrial modelling situations	<p>Calibration of Industrial Areas</p> <p>Indoor to Outdoor calculations</p> <p>Radiation of Chimneys / Stacks</p> <p>Open structures with or without sources inside: transparent buildings</p> <p>Absorbing or Reflecting porches, roofs or similar structures</p> <p>Barriers with transmission</p>
Traffic noise – TNM / FTA	<p>Road parameters: road surface, traffic density, etc.</p> <p>TNM Specific settings</p> <p>Railway parameters and FTA settings</p>
Special traffic modelling situations	<p>Fitting of traffic sources and terrain model</p> <p>Bridges</p> <p>Tunnels</p> <p>Barriers with height-dependent absorption</p> <p>Noise barriers with cantilevers</p>
Design of noise barriers	<p>Wall optimizations</p> <p>Calculation and visualization of pass—by</p> <p>Auralization</p>
Uncertainties of the evaluation levels	<p>Contributions to the overall uncertainty of results</p> <p>Calculation of the uncertainty with CadnaA</p>

Duration: one full day

* 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