

meteodyn **WT** software

CFD wind flow modeling over all kind of terrain for wind Resource assessment and production optimisation

Carry out wind resource assessment study

Produce wind maps on terrains dedicated to wind farms, estimate production and site suitability according to current standards.

Training

1 day

Target

This training provides useful methods to carry out wind resource assessment studies with meteodyn **WT**.

Training also includes WRA in complex terrains (mountains, forests...)

Attendees

Anyone who has to carry out a WRA or wind farm project studies.
Need to use software with Windows platform.

Teaching method

- A full training support with all the concepts
- Numerous data and real projects exercises

Training schedule

meteodyn **WT**: introduction and principles

- A performing CFD software dedicated to wind resource assessment study
- Operating principles of the software

Graphic User Interface of the software

- Practical case: installation of the application
- Practical case: interface and menu – licence – options – project set up

Site creation

- Topographical data process
- Zones of interest definition
- Specific features of the software
- Practical case: site set up, import topographical data, interest zone specification, display and validation's project

Directional computations with CFD solver

- Mesh generation
- Fluids mechanic solving equations
- Initial conditions, boundary conditions and forest models
- Practical case: set parameters of computations for the previous created site – launch directional computations

Synthesis

- Meteorological data process
- Wind turbines characteristics process
- Practical case: launch synthesis with specific parameters
- IEC standards application
- Practical case: result analysis