



windPRO

## SITE COMPLIANCE in windPRO

*(1 half-day online session\*)*

**Join our course to master site-specific mechanical load assessment!**

**When selecting a wind turbine, its structural integrity must be sufficient for the specific wind farm location and layout. Financiers also need this analysis to release capital for new projects.**

**windPRO's SITE COMPLIANCE and LOAD RESPONSE tools enable one to check if the turbine's structural integrity is suitable over the project lifetime.**

### **Structure of the course:**

Each subject begins with theoretical considerations, which are supported by a demonstration and followed up by a hands-on exercise, where the teacher is available for further guidance and help.

There is room for discussions related to specific issues the participants face in their daily work.

### **Topics:**

Upon completion of the course, participants will have a better understanding of how to design and evaluate wind farms with respect to the loads experienced by the turbines:

- Understand the role of the IEC standard 61400-1 and the wind turbines design certificate in the context of designing wind farms
- Evaluate the suitability of turbines for the site
- Ensure that the wind farm complies with design criteria for turbulence, extreme wind, loads, etc.
- Calculate the remaining useful lifetime (RUL) following DNVGL-ST-0262 Lifetime analysis

The participant will be able to make informed decisions about the suitability of turbines for a given site.



### **Who should attend?**

The course is focused on evaluating wind farm layouts before commissioning. It is aimed at developers, operators, and turbine suppliers who need to ensure that the wind farm complies with the design criteria for turbulence, extreme wind, loads, etc.

The course is recommended for experienced windPRO users who want to deepen their knowledge in choosing the right wind turbine for your site.

It is expected that participants have a good understanding of windPRO and its basic functionalities.

As a specific prerequisite you should be familiar with time-varying calculations in windPRO.

*\* Each online half day corresponds to a 4.5-hour session.*