



Wind turbine maintenance specialist (Module 1)

Alternative energy and wind energy in particular continue to gain an increasing importance throughout the world and it keeps demonstrating a rapid development. Every year the need for qualified specialists in the field of wind turbine maintenance and repair works grows. It is expected that after successful completion of the study program, the course participants will be able to carry out technical maintenance and repair works, operating under the guidance of a relevant specialist. It is important to reach a clear understanding that the given wind turbine maintenance program does not permit the course participants to take any action that in its turn involves a legal responsibility of a qualified person.



The aim of the course

To provide the course participants with all the necessary theoretical knowledge and practical skills that will enable them to carry out wind turbine maintenance works. The study process involves learning about the constructions, basic components and systems of the wind turbines, safety rules and measures, electrical circuits and electrical measuring devices.

Course content

- ▶ Introduction to the alternative energy. Wind energy: its history, current situation and development prospects
- ▶ EU legal regulations, norms and standards concerning the field of wind energy
- ▶ Principal structure of the wind turbine
- ▶ Safety rules and measures
- ▶ Basic wind turbine systems
- ▶ Wind turbine exploitation and maintenance principles
- ▶ Practical classes
- ▶ Exam



Target audience

This course is designed for all of those who intend to work in the field of renewable energy and in the field of wind energy in particular and who wish to acquire the speciality “Wind turbine maintenance specialist”.

Prerequisite skills and knowledge

Completed secondary education. It is recommended that the candidate has completed a professional education related to the chosen speciality, for instance, has acquired such speciality as an electrician, a mechanic or an electromechanist. The candidates are permitted to start the studies only after passing the interview. The following points are taken into consideration – practical skills while performing various installation works, candidate’s suitability for working at height (the candidate has to provide a medical certificate that states that the person is allowed to work at height exceeding 5 m). Moreover, additional points will be considered as well - the understanding of technical details and work experience with the electrical equipment





(candidate has to provide a certificate which enables him to operate on electrical installations with the voltage up to 1000 V and higher – group IV(B)).

Issued documents

After completing the course and successfully passing both the written and practical exam, the participant receives a certificate issued by TÜV Rheinland Akademie.

Course duration

160 academic hours

Price for the course

2300 € (without practice)


2700 € (including the practice on the wind turbine - 7 days)

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