



European Qualification Profile

5. Operation of wind farms

1. Production
2. Transport
3. Installation
4. Commissioning
5. Plant operation
6. Maintenance and trouble-shooting



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General assignment: The operational phase is the key productive stage of the wind energy process. The operator takes on the responsibility for meeting the targeted performance output and for all measures taken to fulfill this objective.

Description/Scope of the assignment: The operation of a wind turbine begins once the machine is handed over to the customer after successful commissioning and completion of the trials. The operator assumes overall responsibility for the running of the turbine, manages all supplies and discharges and commissions all maintenance, repair and upgrading work on the turbine.

Key sub-assignments: The key sub-assignments have been classified as follows:

- 5.1 **Take safety precautions on-site and secure the wind farm environment**
- 5.2 **Provide safe access to the wind farm**
- 5.3 **Appoint and authorize (a) site representative(s)**
- 5.4 **Provide on-site management**
- 5.5 **Optimise wind energy production**

Breakdown of sub-assignments

- 5.1 Take safety precautions on-site and secure the wind farm environment**
 - 5.1.1 Carry out mandatory inspections, e.g electrical devices, winch, extinguishers
 - 5.1.2 Conduct/authorize EHS risk assessments
 - 5.1.3 Take precautions against danger from ice in extreme weather conditions

- 5.2 Provide safe access to the wind farm**
 - 5.2.1 Ensure good quality road access
 - 5.2.2 Ensure access in all weather conditions, e.g. snow clearance

- 5.3 Appoint and authorize (a) site representative(s) with reporting obligations for key target groups**
 - 5.3.1 Neighbours and farmers
 - 5.3.2 Local authorities
 - 5.3.3 Utilities
 - 5.3.4 Subcontractors

- 5.4 Provide on-site management**
 - 5.4.1 Organise staff technical and safety training
 - 5.4.2 Monitor EHS responsibilities
 - 5.4.3 Ensure periodic control of personal safety equipment
 - 5.4.4 Organise supply of spare parts for turbines
 - 5.4.5 Secure supply of high voltage to the turbines
 - 5.4.6 Provide functional communications with remote control of the wind farm

- 5.5 Optimise wind energy production**
 - 5.5.1 Supervise and monitor maintenance subcontractors
 - 5.5.2 Monitor and evaluate wind turbine performance
 - 5.5.3 Commission repairs
 - 5.5.4 Align turbines to meteorological conditions
 - 5.5.5 Optimise maintenance schedules
 - 5.5.6 Benchmark performance against state-of-the art installations

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