



# ***Winergy Factory Training Program***

Strengthen your skills and abilities to maintain Wind Turbine Gearboxes



# The right training for everyone

Winergy Factory Training Program features a variety of training modules designed to meet your requests for skilled maintenance, up tower repair specialists, or borescope inspection and failure analysis.

## Basic Module

Basic training	Practical training
<ul style="list-style-type: none"> <li>▪ Introducing the Winergy Original Service</li> <li>▪ Design of a wind gearbox</li> <li>▪ Lubrication principles of a wind gearbox</li> <li>▪ Possible gear failures</li> <li>▪ Possible bearing failures</li> <li>▪ Preparing an oil sample</li> <li>▪ Up-tower-repair</li> </ul>	<ul style="list-style-type: none"> <li>▪ Borescope inspection (theoretical part)               <ul style="list-style-type: none"> <li>▪ Preparations</li> <li>▪ Inspection of geared parts</li> <li>▪ Inspection of bearings</li> </ul> </li> <li>▪ The borescope (overview and controls)</li> <li>▪ Borescope inspection (practical part)               <ul style="list-style-type: none"> <li>▪ Simulation of a borescope field service inspection</li> <li>▪ Documenting and assessing the failures</li> <li>▪ Creating the inspection report</li> </ul> </li> </ul>
<p>Number of participants: 4 – 6 Participants            Duration of training: 3 days</p>	

## Standard Module

Basic Module plus...	
<ul style="list-style-type: none"> <li>▪ Utilize up tower standard and Winergy specialty tooling</li> <li>▪ High speed stage bearing &amp; pinion exchanges</li> <li>▪ Intermediate stage bearing &amp; pinion exchanges</li> </ul>	<ul style="list-style-type: none"> <li>▪ Identify and evaluate gearbox subcomponent failures</li> <li>▪ Field repair documentation and reporting best practices</li> </ul>
<p>Number of participants: 4 – 6 participants            Duration of training: 8 days</p>	

Modules available on various Gearbox Types	
Single Stage	Dual Stage
<ul style="list-style-type: none"> <li>▪ GE 1.5: PEAB 4410</li> <li>▪ GE 1.7: PEAB 4431</li> <li>▪ SGRE 2.3: PEAB 4456/8</li> <li>▪ Vestas V82: PEAB 4420</li> <li>▪ Vestas 2MW PEAB 4435</li> <li>▪ Vestas 2MW: PEAB 4440</li> </ul>	<ul style="list-style-type: none"> <li>▪ GE 2MW PZAB 3505</li> <li>▪ SGRE 3MW PZAB 3489</li> <li>▪ Vestas 3MW PZAB 3530</li> </ul>