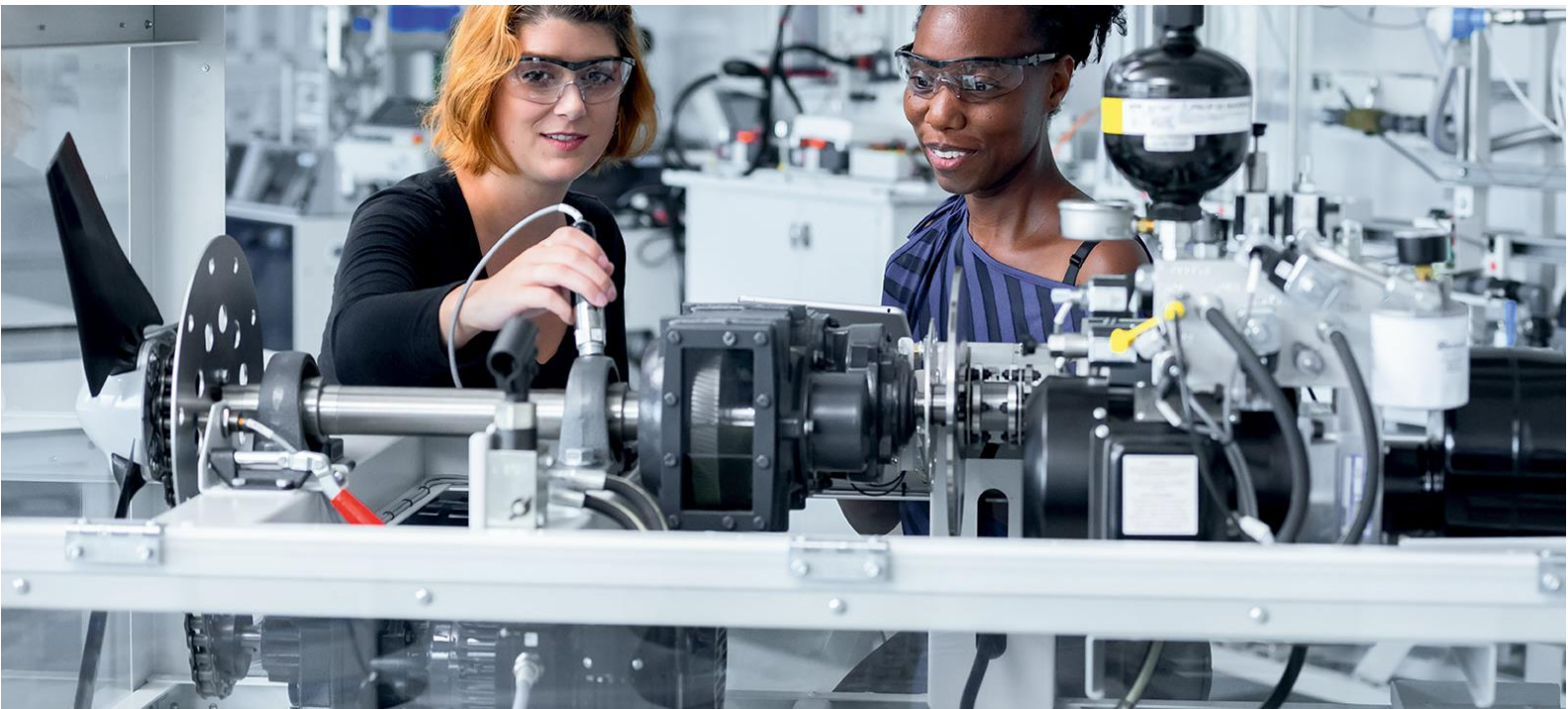


BZEE wind turbine service technician

## Build skills for wind turbine operation, maintenance, and troubleshooting

**FESTO**



### Hands-on. Safe. Realistic.

BZEE develops certified industry-relevant training courses to promote excellence in the wind energy sector. Future wind turbine service technicians can build and sharpen their expertise with wind turbine systems and wind energy technology thanks to learning solutions by Festo Didactic.

Extensive practical experimentation on realistic, yet didactic equipment is key to learning success.

Future BZEE wind turbine technicians can use our didactic learning solutions to build and sharpen their skills in **wind turbine hydraulics, mechanics, and electronics/electrical systems.**

**Festo Didactic is a BZEE recommended training equipment provider.**

Refer to the matrix on next page to see suggested learning solutions for specific BZEE courses.

You can also see these solutions in our Wind Power Training Demo Room:  
→ [bit.ly/Wind-Power-Training-Demo-Room](https://bit.ly/Wind-Power-Training-Demo-Room)

For complete product details:  
→ [www.festo-didactic.com](https://www.festo-didactic.com)  
→ [labvolt.festo.com](https://labvolt.festo.com)

Contact a Festo Didactic sales representative to design or expand your wind power training facilities.

# Matrix BZEE courses / Festo Didactic products

BZEE-Code	BZEE Course	<u>Nacelle – Wind Turbine Learning System</u>	<u>Electrical /Hydraulic Pitch Hubs</u>	Hydraulics TP <u>501</u> , <u>502</u> , <u>601</u> , <u>602</u> , <u>701</u> , <u>702</u>	<u>FluidSIM</u> (simulation software)	<u>Mechanical Drives Learning System</u>	<u>Electromechanical systems (EMS)*</u>	<u>Wind Power TP 8012</u>	<u>Industrial Wiring*</u>	<u>Basic Motor Controls TP 1221</u>	<u>Servo Brake and Drive System TP 1410</u>	<u>Sensor Technology TP 1311 and TP 1312</u>	<u>FACET Electronics Learning System*</u>	<u>Fund. of Electricity/Electronics TP 1011</u>
<b>Wind turbine mechanics</b>														
-MEC-02	Mechanical systems and components – basics	x	x			x								
-MEC-03	Inspection of bearings, shafts, gears	x	x			x								
-MEC-04	Brake systems maintenance	x		x		x								
-MEC-05	Lubricants, filter technology, oil analysis	x	x	x		x								
-MEC-06	Power drive sockets (hydraulic, electric, mechanical)	x												
-MEC-07	Function and maintenance of yaw systems	x												
<b>Wind turbine hydraulics</b>														
-HYD-01	Hydraulics principles	x	x	x	x									
-HYD-02	Assembly/maintenance of hydraulic units	x	x	x	x									
-HYD-03	Assembly/maintenance of hydraulic pumps & valves	x	x	x	x									
-HYD-04	Assembly/maintenance of hydraulic systems	x	x	x	x									
-HYD-05	Assembly/maintenance of electrohydraulic controls	x	x	x	x									
-HYD-06	Assembly/maint. of prop. hydr. controls & servo valves	x	x	x	x									
-HYD-07	Assembly/maint. of hydraulic pitch and brake systems	x	x	x	x									
-HYD-08	Assembly/maint. of hydrodynamic/hydrokinetic drives				x									
<b>Wind turbine electronics and electrical systems</b>														
-ELT-01	Principles of electrical engineering						x						x	x
-ELT-04	Electrically skilled person for specified assembly assignments						x		x				x	x
-ELT-09	Generators and electric motors	x	x				x	x		x	x			
-ELT-10	Transformers						x							
-ELT-11	Inverter maintenance and troubleshooting	x	x				x	x		x				
-ELT-12	Electrical measurement techniques	x	x				x	x	x	x	x		x	x
-ELT-13	Sensor installations in wind turbines	x										x		
-ELT-14	Wind turbine electronics	x					x						x	x
-ELT-15	Wind farm network	x												
<b>Wind energy technology</b>														
-WET-01	WT technology – systems and components	x	x				x		x	x				
-WET-02	Wind turbine aerodynamics	x	x											

\* This learning solution cannot be delivered to European countries that require CE compliance.