

The Wind Energy Technology Program will prepare students for entry level employment as wind energy equipment technicians, often referred to as Wind Smiths. A wind energy technician is a key member of a team of people responsible for the operation and maintenance of electrical energy generation equipment and control systems for wind turbine generation systems. Individuals interested in the Wind Energy Technology program must be prepared for working in confined spaces and at heights greater than 100 feet. The individuals should be capable of lifting and carrying loads of 75 lbs plus. Individuals will be required to make a vertical climb of 300 feet with only two rest stops; often several times in a day. The work will often be in extreme weather conditions at remote locations for extended periods. The Wind Energy Technology program is focused on the maintenance and repair of commercial wind turbines; gear boxes, generators, digital controllers, and other industrial maintenance skills.

The industries interested in the graduates from the program include, but are not limited to Wind Energy Farm owners and operators and firms that specialize in the maintenance and overhaul of wind powered generation equipment.

Information:

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**Degree: Associate of Applied
Science**

Wind Energy Technology

Certificates:

- Introduction to Wind Energy Technology**
- Wind Energy Safety**
- Wind Energy Basic Electro-Mechanical**
- Wind Energy Advanced Electrical**
- Wind Energy Advanced Mechanical**

AAS Degree

Wind Energy Technology

Required Courses		Credits
ENY 175	Introduction to Wind Energy Technology	3
IMA 100	Introduction to Industrial Maintenance	3
EIC 124	Electrical Safety Requirements	1
OSH 175	Personal Safety for the Energy Industry	3
HVA 105	Electricity for HVAC/R	4
ENT 106	Print Reading	3
IMA 250	Industrial Machine Lubrication	3
MIL 104	Introduction to Bearings	2
IMA 120	Pumps, Seals and Rotating Equipment	3
IMA 160	Basic Fluid Power	3
EIC 160	Electrical Instruments and Measurement	4
EIC 220	Industrial Electrical Controls I	4
EIC 225	Programmable Controllers	4
Subtotal		40
Required General Education Courses		Credits
CIS 118	Introduction to PC Applications	3
BUS 118	Business Survival Skills	3
ENG 121	English Composition I	3
MAT 108	Technical Mathematics	4
PHY 107	Energy Science and Technology	4
SOC 101	Introduction to Sociology or PSY 101 General Psychology I	3
Electives from IMA or HVA prefixes		3
Total Credits		61

Wind Energy Certificates:

Students completing this program possess the skills and knowledge for entry level positions within the industry in the specific area of interest.

Certificate

Introduction to Wind Energy Technology

Required Courses		Credits
ENY 175	Introduction to Wind Energy Technology	3
IMA 100	Introduction to Industrial Maintenance	3
EIC 124	Electrical Safety Requirements	1
HVA 105	Electricity for HVAC/R	4
OSH 175	Personal Safety for the Energy Industry	3
Total Credits:		14

Certificate

Wind Energy Safety

Required Courses		Credits
EIC 124	Electrical Safety Requirements	1
OSH 175	Personal Safety for the Energy Industry	3
Total Credits		4

Certificate

Wind Energy Basic Electro-Mechanical

Required Courses		Credits
ENT 106	Print Reading	3
IMA 250	Industrial Machine Lubrication	3
MIL 104	Introduction to Bearings	2
IMA 120	Pumps, Seals and Rotating Equipment	3
IMA 160	Basic Fluid Power	3
EIC 160	Electrical Instruments and Measurement	4
EIC 220	Industrial Electrical Controls I	4
Total Credits		22

Certificate

Wind Energy Advanced Electrical

PPT 215	Power Generation Technology	3
IMA 150	Industrial Problem Solving Methods	2
EIC 230	Industrial Instrumentation and Controls	4
EIC 225	Programmable Controllers	4
Total credits		13

Certificate

Wind Energy Advanced Mechanical

Required Courses		Credits
IMA 150	Industrial Problem Solving Methods	2
MAC 105	Intro to Machining Technology	3
WEL 131	Intro to Industrial Welding	4
IMA 210	Vibration Analysis	3
Total Credits		12