

WIND ENERGY TECHNOLOGY, A.A.S.

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Overview

The Wind Energy Technology program combines lecture and hands-on training to provide skills necessary in completing advanced technical troubleshooting and repairs on wind energy turbines. Under minimal supervision, graduates will be able to carry out complex daily assembly, service, repair, and operations of infrastructure to wind turbine generators and related equipment. Exposure to concepts of basic digital circuits, motor controllers, programmable logic controllers, and computerized data collection, interpretation, storage, and retrieval is evident throughout the program. Wind Energy Technicians must operate in compliance with company, State, and Federal OSHA requirements and be capable of climbing to 300 feet. They work closely with clients and must have an understanding of environmental issues and politics, written technical skills, and data interpretation.

Locations

Canby

[Wind Energy Tool List](#)

Course Number	Course Title	Credits
Fall - Year 1		
ELCO 1110	AC/DC I	3
ELEC 2265	Intro to Alternate Energy	3
ELWT 1170	Wind Energy OSHA Standards & Climb Lab	3
ELWT 1101	Introduction to Wind Energy	2
CSCI 1102	Computer Applications I	3
	Credits Fall - Year 1	14
Spring - Year 1		
ELCO 1120	AC/DC II	3
ELEC 1235	Applied Electrical Calculations	2
ELWT 1110	Mechanical Systems	3
DSL 1130	Hydraulics Theory and Application	3
ELWT 1102	Advanced Hydraulic Lab	1
	<i>General Education Electives</i>	3
	Credits Spring - Year 1	15
Fall - Year 2		
ELEC 2200	Low Voltage	2
ELEC 2205	Electric Motor Control I	4
ELWT 2110	Turbine Siting & Construction	3
	<i>General Education Electives</i>	6
	Credits Fall - Year 2	15
Spring - Year 2		
ELEC 1225	Electric Motors	3
ELEC 2230	Programmable Logic Controllers	4
ELEC 2240	Transformers	3
	<i>General Education Electives</i>	6
	Credits Spring - Year 2	16
	TOTAL CREDITS	60

Notes: General Education Electives must include courses from Goal Area 1 - Communication and Goal Area 4 - Mathematics and one other Goal Area of the Minnesota Transfer curriculum.