

CLOUD COUNTY COMMUNITY COLLEGE

WIND ENERGY TECHNOLOGY

SUBSTATION TECHNICIAN CERTIFICATE



**START
HERE**

**High School
Diploma
or GED**

**Apprentice
\$48,000 - \$50,000
+ benefits**

Associate of Applied
Science Wind Energy
Technology Two Year
Degree and/or One
Year Substation Tech
Certificate.
Overtime is available and
will significantly increase
earnings.

**Internship
\$40,000 - \$48,000**

Internships are available
through electrical
utility companies and
cooperatives as part of
the program. At the
end of the internship,
many times the intern
is offered a full time
apprentice position.

**Journeyman
\$54,000 - \$80,000
+ benefits**

Upon completion of a
4 year Apprenticeship,
a graduate can become
a Journeyman, with
an increase in salary.
Overtime is available
and will significantly
increase earnings.



Why Choose Wind Energy Technology at CCCC?

- Kansas ranks 2nd in the nation for potential energy production from wind.
- Only college in Kansas approved to offer Associate of Applied Science degree in Wind Energy Technology.
- One of only 7 colleges in the entire nation to earn the AWEA Seal of Approval.
- One of the first colleges in the nation to offer a comprehensive Blade Repair program, complete with a state of the art Composite Lab.
- As part of the Substation Technician program, the college has a Substation Training Lab, the only one of its kind in the United States.
- Operating wind farm on campus that powers the college's geothermal HVAC system and also provides valuable field and safety training for the students.
- Paid internships provided through partnerships with many leading companies in the industry.

Substation Technician One Year Certificate

1st Semester		Hrs	2nd Semester		Hrs
MA110	Intermediate Algebra	3	WE210	Electronics	3
WE105	Employability Skills, Safety, Blueprint Reading	3	WE215	Electrical System Protection & Coordination	3
WE110	Electrical Theory	3	WE225	Motors, Generators, & PLCs	3
WE202	Electrical Power Delivery (offered on-line only)	3	WE230	Substation & Voltage Regulation	3
WE227	PLCs	3	WE270	Transformer Theory	3
WE250	Data Acquisition & Communication	3	WE280	Internship (optional)	4
Total		18	Total		19

There is an increasing demand for Substation Technicians in Kansas and across the country. All wind farms have at least one substation with many having multiples. There is a constant increase in the demand for transmission lines to transport the wind power generated in western Kansas to the grid in the metropolitan areas to the west and east. With this increased demand also comes an increase in the number of substations. In addition, it is estimated that 60% of the current work force will be retiring within the next 5 years making this career path a very appealing opportunity.



Cloud County Community College
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