

CLOUD COUNTY COMMUNITY COLLEGE WIND ENERGY TECHNOLOGY SUBSTATION TECHNICIAN CERTIFICATE



**START
HERE**

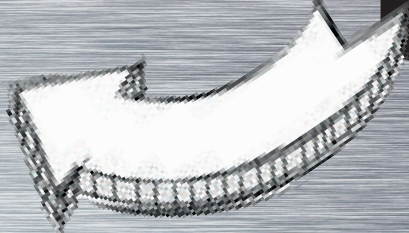
**High School
Diploma
or GED**

**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.

**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.



**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.