

# WIND ENERGY TECHNOLOGY PROGRAM

## Cloud County Community College

### REQUEST FOR ADMITTANCE

ALL APPLICATIONS MUST BE COMPLETED AND RETURNED TO THE OFFICE OF ADMISSIONS  
INCOMPLETE FORMS WILL NOT BE REVIEWED.

Personal Information  
Please Print.

_____	_____	_____	_____
Last Name	First Name	Middle	Former Last Name(s)
_____	_____	_____	_____
Street Address and/or P.O. Box	City	State	Zip Code
_____	_____	_____	_____
Home Phone	Work Phone	Date of Birth	Email Address

Applying for:  
(Circle one)

AAS Degree  
(Assoc. of Applied Science)  
62 hours (2 years)

Wind Energy  
Technician Certificate  
33 hours (1 year)

Substation  
Technician Certificate  
33 hours (1 year)

Applying for fall/spring  
\_\_\_\_\_ Year

### Education History

#### High School Information

Will you be receiving or do you have:

G.E.D

Year G.E.D completed \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

High School Diploma

Year of Graduation: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

#### College Information

Degrees Obtained:  
(Please complete all that apply)

Certificate Program (location) \_\_\_\_\_

Associate Degree (location) \_\_\_\_\_

Bachelor Degree (location) \_\_\_\_\_

Master Degree (location) \_\_\_\_\_

Cloud County Community College requires official transcripts from each institution you have attended. It is your responsibility to make sure that each transcript is sent directly to CCCC from your previous college(s). Hand-delivered transcripts are not acceptable.

I understand that if I withhold or give false information on this form it may make me ineligible for admission to the Wind Energy Technology program or subject me to dismissal. I further certify that all statements are complete and correct to the best of my knowledge.

I understand that the completed forms are for use by the Wind Energy Technology Admission Committee and Cloud County Community College only. I voluntarily waive my right of access to this recommendation under Public Law 93-380 and the Regulations promulgated there under so that it may be kept confidential.

Signature \_\_\_\_\_ Date \_\_\_\_\_

*\*Student is responsible for notifying the Office of Admissions of any changes to this information.*

**Cloud County Community College  
Wind Energy Technology  
Physical Examination Form**

**Student to complete the following information:**

Name \_\_\_\_\_  
Last First Middle

Birth date \_\_\_\_\_

Are you currently seeking the care of a physician? No \_\_\_\_ Yes \_\_\_\_ (Check one)

If yes, explain:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are you currently taking medications regularly? No \_\_\_\_ Yes \_\_\_\_ (Check one)

If yes, explain:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Have you ever been hospitalized? No \_\_\_\_ Yes \_\_\_\_ (Check one)

If yes, explain:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Previous history (check any that apply and explain below):

Allergies

Kidney Problems

Bone or Joint Injury

Heart Problems

Diabetes

Surgeries

Hypertension

Epilepsy

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date of last tetanus immunization \_\_\_\_\_

(over)

For Physician to complete:

Height \_\_\_\_\_ Weight \_\_\_\_\_ Blood Pressure \_\_\_\_\_

Medical Examination	OK	Problems/Comments
Dental		
Eyes		
Ears, Nose, Throat		
Head, Neck		
Skin, Scalp		
Lymphatics		
Thorax		
Lungs		
Heart		
Abdomen		
Hernia		
Genitalia		
Neurologic		

Orthopedic Examination	OK	Problems/Comments
Neck and shoulders		
Elbows, wrists, hands		
Back		
Knees		
Ankles		
Feet		
Flexibility		

Wind energy technicians are required to be able to perform the following tasks.

Task	OK	Task	OK	Task	OK
Climbing 250 ft. towers		Reaching		Smelling	
Balancing		Handling		Near/Far Acuity	
Stooping		Finger Dexterity		Depth perception	
Kneeling		Talking		Color vision	
Crouching		Hearing		Field vision	

Recommendations:

- Full Activity
- Limited participation (explain) \_\_\_\_\_
- Clearance withheld until (explain) \_\_\_\_\_
- No participation in this activity

Physician's Signature \_\_\_\_\_ Date \_\_\_\_\_

# CLOUD COUNTY COMMUNITY COLLEGE WIND ENERGY TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE DEGREE

**START  
HERE**

**High School  
Diploma  
or GED**

**Wind Lead Tech  
\$60,000 - \$72,000  
+ benefits**

One year of experience and additional training—Wind Techs can advance to Lead Tech after a year or two, with an increase in salary. Overtime is available and will significantly increase earnings.

**Wind Tech I  
\$45,000 - \$60,000  
+ benefits**

Associate of Applied Science two year degree—100% placement rate. Overtime is available and will significantly increase earnings. Traveling Wind Techs earn \$8,000-\$10,000 more annually.

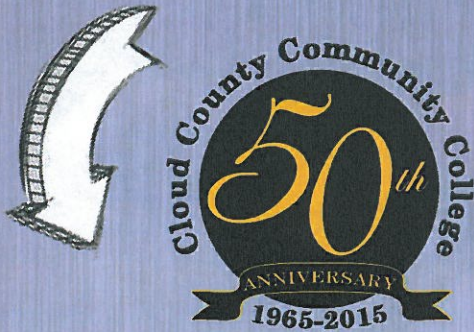
**Manager  
\$75,000 - \$150,000  
+ benefits**

Additional on-the-job training—Lead Techs can advance to Management positions quickly with all the new wind farms being built. Those with an Associate or Bachelor's Degree will have first priority.



# 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.



## Wind Energy Technology Associate of Applied Science Degree



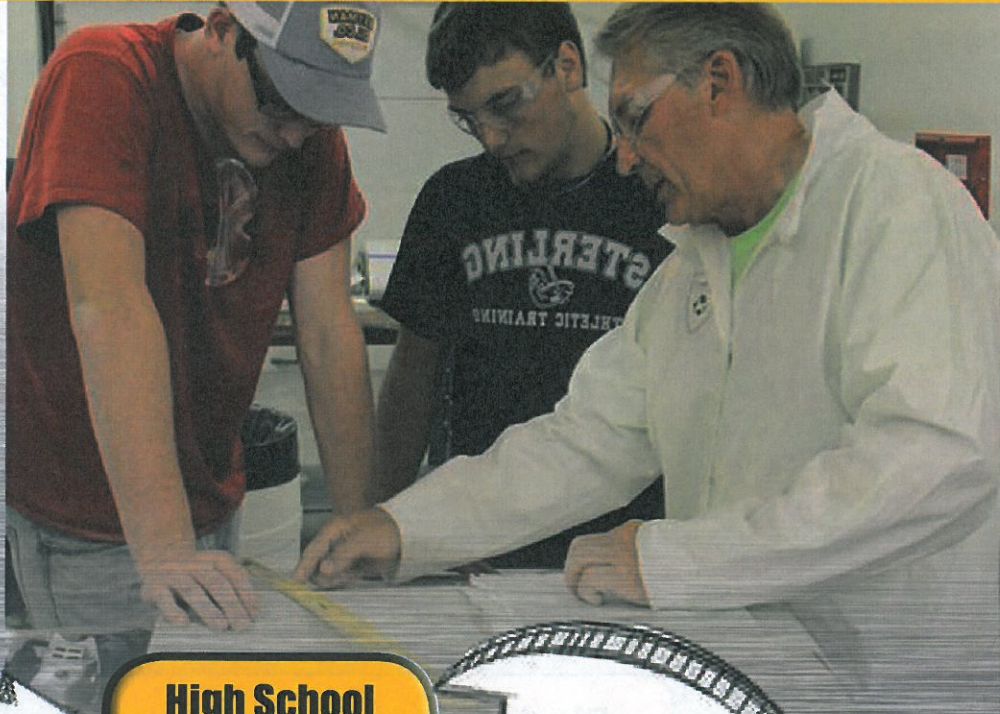
### Freshman Year—Wind Energy Certificate is Earned

1st Semester	Hrs.	2nd Semester	Hrs.
<b>MA110</b> Intermediate Algebra	3	<b>WE230</b> Substation & Voltage Regulation	3
<b>CS155</b> Networking & Computer Technology	3	<b>WE120</b> Hydraulics	3
<b>WE100</b> Introduction to Wind Energy	3	<b>WE210</b> Electronics	3
<b>WE110</b> Electrical Theory	3	<b>WE225</b> Motors, Generators, & PLCs	3
<b>WE150</b> Mechanical Systems	3	<b>WE265</b> Field Training & Project Operations	3
<b>CM101</b> English Composition I	3	<b>WE280</b> WET Internship (optional)	4
<b>SS100</b> College Skills	1		
<b>Total</b>	<b>19</b>	<b>Total</b>	<b>19</b>

### Sophomore Year—AAS Degree is Earned

1st Semester	Hrs.	2nd Semester	Hrs.
<b>CM115</b> Public Speaking	3	Humanities Course - <b>SS122</b> History I or equivalent elective	3
<b>SC107</b> Meteorology w/Lab	4	<b>SS101</b> General Psychology	3
<b>SC109</b> Applied Physics	3	<b>WE105</b> Employability Skills, Safety, & Blueprint Reading	3
<b>WE255</b> Airfoils and Composite Repair	3	<b>WE250</b> Data Acquisition & Communications	3
<b>WE270</b> Transformer Theory	3	<b>WE260</b> Wind Turbine Siting	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>

# CLOUD COUNTY COMMUNITY COLLEGE WIND ENERGY TECHNOLOGY BLADE REPAIR TECHNICIAN CERTIFICATE



**START  
HERE**

**High School  
Diploma  
or GED**

**Tech I  
\$33,000 - \$42,000  
+ benefits**

Associate of Applied Science Wind Energy Technology Degree and/or One Year Blade Repair Technician Certificate--100% placement rate. Overtime is available and will significantly increase earnings.

**Tech II  
\$38,000 - \$50,000  
+ benefits**

One or Two Years Experience—Blade Repair Technicians can easily advance to the next level, with an increase in salary. Overtime is available and will significantly increase earnings.

**Tech III  
\$50,000 - \$63,000  
+ benefits**

Additional on the job training and skills—Blade Repair Technicians can advance to Leadership positions, with an increase in salary. Overtime is available and will significantly increase earnings.



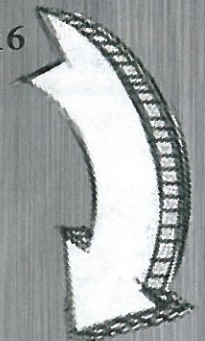
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- Operating wind farm on campus that powers the college's geothermal HVAC system and also provides valuable field and safety training for the students.
- Paid internships provided through partnerships with many leading companies in the industry.



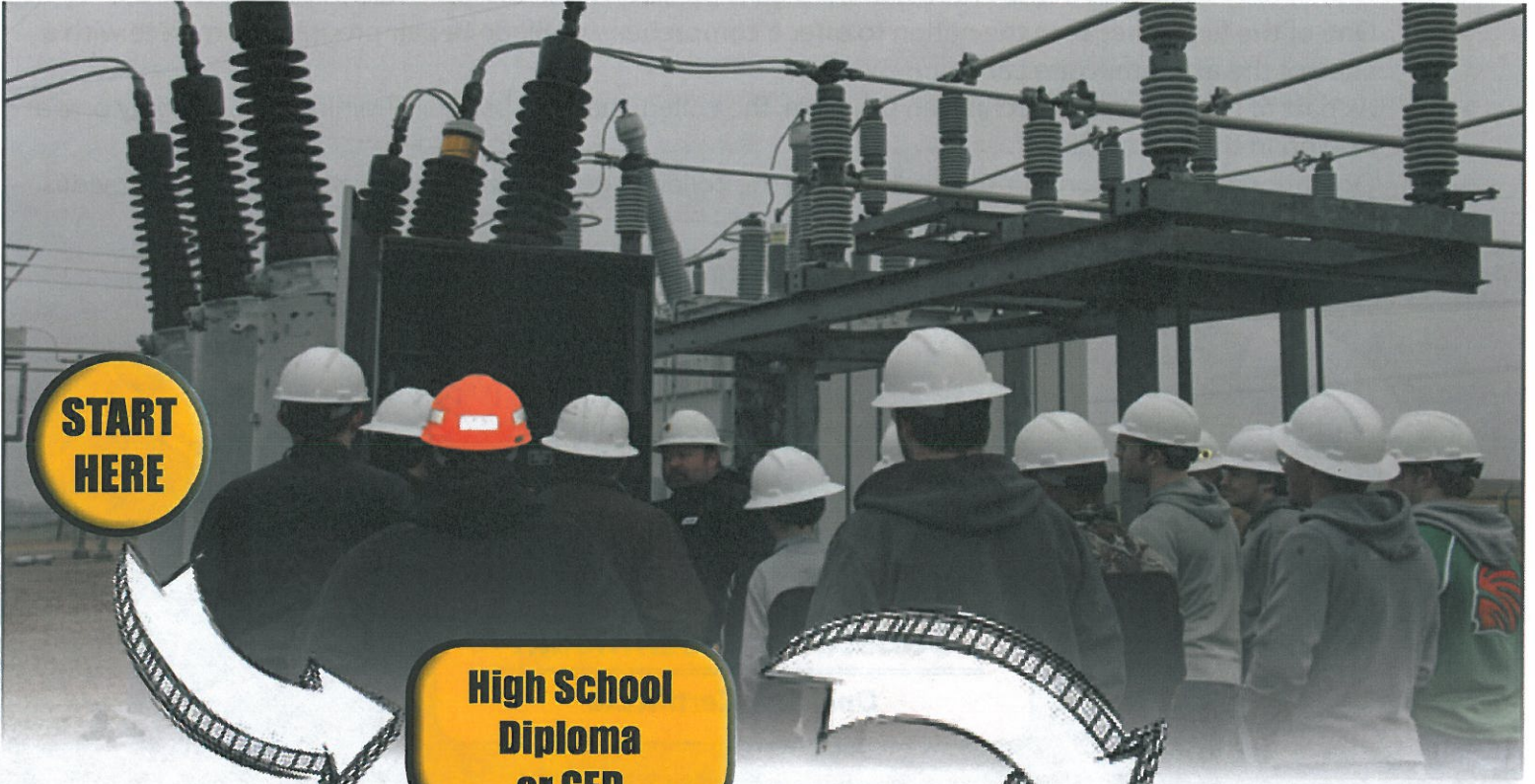
## Blade Repair Technician *One Year Certificate*

<u>Courses</u>	<u>Hrs</u>
WE 100 Introduction to Wind Energy	3
CM 101 English Composition I	3
WE 255 Airfoils and Composite Repair	3
WE 257 Applied Airfoils	3
WE 262 Blade Repair Operations	4
<b>Total</b>	<b>16</b>



Wind turbine blades are exposed to weather elements 24 hours a day, 7 days a week for 20-25 years expected longevity. During that time, they will experience lightning and hail storms, wind gusts, tornadoes, and dirt or sand storms, all wearing on the leading edges of the blades and flexing internal and external components. Blade Repair Technicians are in very high demand. Highly skilled and trained Technicians are needed to travel to wind farm sites in need of blade repair services.

# CLOUD COUNTY COMMUNITY COLLEGE WIND ENERGY TECHNOLOGY SUBSTATION TECHNICIAN CERTIFICATE



**START  
HERE**

**High School  
Diploma  
or GED**

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.

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

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.

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

**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.





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## 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
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>19</b>



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.