



	Principles of Applied Engineering
<b>Level 1</b>	Invention and Innovation FIRST FOCUS
<b>Level 2</b>	
<b>Level 3</b>	Scientific Research & Design (Robotics 3) Engineering Design and Problem Solving (Engineering)
<b>Level 4</b>	Project-Based Research (Mentorship)

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
	Photovoltaic Installer-Level I Professional	Industrial Mechanics and Maintenance Technology	Surveying Engineering	Surveying Engineering
	Solar Photovoltaic Certification	Solar Energy/Technology	Systems Engineering	Systems Engineering
	Small Wind Installer-Level I	Engineering, Mechanics	Engineering, Mechanics	Manufacturing Engineering
		Engineering, General	Engineering, General	Engineering, General

\*Includes Level I and Level II Certificates

Occupations	Median Wage	Annual Openings	% Growth
Wind Turbine Services Technician	\$51,334	387	108%
Solar Photovoltaic Installer	\$43,957	47	81%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b> Skills USA Science Club	<b>Work Based Learning Activities:</b> Research four renewable energy companies and compare them.

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Renewable Energy program of study helps CTE learners discover to assemble, inspect, maintain, and repair different equipment required for renewable energy. It introduces students to solar photovoltaic equipment and wind turbines, the systems and processes used to maintain and manage these types of equipment, and helps students develop the skills needed to do so.



The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

Successful completion of the Renewable Energy program of study will fulfill requirements of the Business and Industry or STEM endorsement if the Math and Science requirements are met. Revised - July 2020



# COURSE INFORMATION

FOR ADDITIONAL INFORMATION ON THE SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS CAREER CLUSTER,  
PLEASE CONTACT:

Laura Torres | [Laura.Torres@tea.texas.gov](mailto:Laura.Torres@tea.texas.gov)

<https://tea.texas.gov/cte>

Eanes ISD offers career and technical education programs in Arts, A/V Technology and Communications; Business, Management and Administration; Education and Training; Human Development, Management and Services; Health Science; Information Technology, Marketing and STEM. Admission to these programs is based on interest and aptitude, age appropriateness, and class space available.

It is the policy of the Eanes Independent School District not to discriminate on the basis of race, color, national origin, sex, or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended. Eanes ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. For information about your rights or grievance procedures, contact the following persons are designated to handle inquiries regarding non-discrimination policies:

- Title II, Section 504: Assistant Superintendent of CIA, Molly May, [mmay@eanesisd.net](mailto:mmay@eanesisd.net) (512) 732-9021.
- Title IX and Age Act of 1975: Assistant Superintendent for Human Resources, Laurie Lee, [lee@eanesisd.net](mailto:lee@eanesisd.net), (512) 732-9010. at EISD Central Administration, 601 Camp Craft Rd., Austin, TX, 78746.

## **Declaración de la Práctica de No Discriminar**

La práctica de Eanes Independent School District es de no discriminar ya sea por raza, color, origen nacional, sexo, discapacidad, ni edad de la persona al emplear o para proporcionar educación, admisión, trato, o acceso a los beneficios de servicios educativos, actividades, y programas. Las siguientes personas han sido designadas para responder a preguntas tocantes las prácticas para evitar la discriminación:

La Ley del Título II y Sección 504 (Title II and Section 504): Director de Educación Especial, Molly May, [mmay@eanesisd.net](mailto:mmay@eanesisd.net), (512) 732-9021

La Ley del Título IX y Discriminación Tocante la Edad de 1975 (Title IX and Age Discrimination Act of 1975): Asistente al Superintendente en Recursos Humanos, Laurie Lee, [lee@eanesisd.net](mailto:lee@eanesisd.net), (512) 732-9010

Ambos tienen sus oficinas en EISD Central Administration, 601 Camp Craft Rd., Austin, TX, 78746.