

Clean Energy

Learn how to map your career and find path to success!



Going GREEN....

More and more people are talking about Green Jobs, in today's economy, but what does it mean to have a green job? What does it mean to work for green business?

According to the official definition, green occupations or business are those that create renewable energy, improve energy efficiency, recycle, reuse or reduce pollution, conserve natural resources, enforce environmental law and educate about renewable energy.

As people become more concerned about our environment, many occupations are changing. Demand for existing green occupations is increasing; For example (Biologists), existing occupations are adapting and changing due to increased demand (electricians need to learn to install solar panels), and new occupations are emerging (wind turbine technicians) that are completely new and unique.

How to learn more:

- Explore this and other industries at www.nvcis.intocareer.org
- Find out if a job will pay your bills using the Reality Check at www.nvcis.intocareers.org
- Search for all the training programs in Nevada, schools and other information regarding career or education options in Nevada by exploring <http://www.nevadayouth.org/>

How do I get started in Clean Energy?

» Keep your grades up in high school. Take math, science, computer and English classes.

» Explore careers you might be interested in at Connect with NCIS at www.nvcis.intocareers.org

» Explore careers and employment possibilities at www.NevadaYouth.org.

» Do you know anyone who works in Clean Energy? Interview him/her and ask if you can visit his/her workplace.

» Make a plan based on your interests. How much training do different jobs require? Where can you find the training you need? How will you pay for it? What steps can you take to get you closer to your goal?

Because of its natural resources and more than 250 days of sunshine, Nevada has a great solar energy potential as well as abundant geothermal and wind potential to become leader in clean energy.

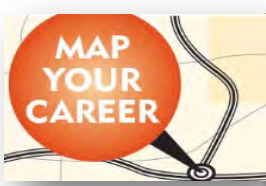
Career Paths in Clean Energy

Education Level	Hourly Wage Ranges* (25 th – 75 th percentile)	Green Energy	Green Manufacturing	Green Automotive Operations	Green Building
HIGH LEVEL	Geothermal Manager \$ 33.40 – \$53.47	Electrical Engineer, Energy Manager/Energy Engineer, Smart Grid Meter Technology Manager	Industrial Engineer, Welding Engineer, Manufacturing Engineer, Design Engineer, Chemist	Software & Control System Engineer, Diesel Retrofit Designer, Automotive Power Electronic Engineer	Mechanical Engineer, Construction Manager, Civil Engineer, Architect
MID LEVEL	Power Distributors & Dispatchers \$32.59 - \$45.50	Electrical Power line Installer, Power Plant Operator, Power Distributors & Dispatchers, Energy Auditor, Engineering Technician	Sheet Metal Worker, Welder, Pipe Fitter, CNC Operator, Precision Inspector & Tester .	Car & Truck Mechanics (biodiesel, Electric, Hydrogen Vehicle), Electric and Hybrid Vehicle Electrician, Automotive Master Mechanic	HVAC Technician, Construction Carpenters, Building Inspectors, Drafting & Design Technicians
ENTRY LEVEL	Geothermal Technician \$13.46 - \$30.07	Electrician's Helper, Pre-apprentice Line Worker, Thermal Control Tech., Instrument Control Tech, Entry Level Tech. (windsmith, solar)	Production Helper, Welding Technician, Process Improvement Technician	Diesel retrofit Installer, Automotive Assembler/Fabrication, Automotive Service Technician	Roofer, Solar Photovoltaic Installer, Construction Laborer

*For info on wage ranges visit – Nevada Workforce Informer at <https://nvcis.intocareers.org>

Note: the colors for career path aligns with the CTE classes available in the school.

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Classes to take for different Programs of Study in Clean Energy:

High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Post Secondary
» Base course schedule that students will take in high school:	English I	English II	English III	English IV	College of Southern Nevada Great Basin College Nevada State College Truckee Meadows Community College University of Nevada, Las Vegas University of Nevada, Reno Western Nevada College
	Algebra I	Geometry	Algebra II	Senior Level Math Course	
	Biology	Chemistry or Geoscience	Junior Level Science Course	Elective	
	Health / Computer Literacy	World History	US History	US Government	
	Physical Education	Physical Education	Foreign Language or Elective	Foreign Language or Elective	

» Recommended classes for selected career paths in Clean Energy:

					Industry Recognized Certifications:
Alternative Energy:	Alternative Energy I	Alternative Energy II	Alternative Energy III	Alternative Energy Adv. Study	Career Safe (OSHA), Alternative Energy & Core Curriculum (NCCER)
Electronic Technology:	Electronic Technology I	Electronic Technology II	Electronic Technology III	Electronic Technology Adv. Studies	Career Safe (OSHA), J-STD-001 (IPC Cert.), Student Electronic Tech. (ETA)
Mechanical Technology:	Mechanical Technology I	Mechanical Technology II	Mechanical Technology III	Mechanical Tech. Adv. Studies	Career Safe (OSHA), Core Curriculum (NCCER)
Welding Technology:	Welding Technology I	Welding Technology II	Welding Technology III	Welding Technology Adv. Studies	Career Safe (OSHA), Core Curriculum (NCCER)
Metalworking:	Metalworking I	Metalworking II	Metalworking III	Metalworking Adv. Studies	Career Safe (OSHA)
Drafting & Design:	Drafting and Design I	Drafting and Design II	Drafting and Design III	Drafting and Design Adv. Studies	Autodesk Certified User, Certified Apprentice Drafter, Certified Solidworks Associate
AgMET Equipment Fabrication Systems:	AgMET I	AgMET II	AgMET Equipment Fabrication Systems	AgMET Adv. Studies	Career Safe (OSHA), AWS Certified Welder (American Welding Soc.)
AgMET Power Systems:	AgMET I	AgMET II	Ag MET Power Systems	AgMET Adv. Studies	Career Safe (OSHA), AWS Certified Welder (American Welding Soc.)
Automotive Technology:	Automotive Technology I	Automotive Technology II	Automotive Technology III	Automotive Technology Adv. Studies	Career Safe (OSHA), Automotive/Light Truck (A1 – A8)
Construction Technology:	Construction Technology I	Construction Technology II	Construction Technology III	Construction Tech. Adv. Studies	Career Safe (OSHA), Constr. Tech. & Core Curriculum (NCCER)
Air Conditioning & Refrigeration:	Air Conditioning & Refrigeration I	Air Conditioning & Refrigeration II	Air Conditioning & Refrigeration III	Air Conditioning & Refrigeration Adv. Studies	HEAT (HVAC Excellence), AHRI Certifications, Career Safe (OSHA)
(PLTW) Project Lead The Way Architectural & Civil Engineering:	Introduction to Engineering Design	Principles of Engineering	Civil Engineering and Architecture	Engineering Design and Development	

This program of study is based upon the requirements needed for an Advanced Diploma. Academic course names may vary among school districts. For detail information please visit: <http://ctae.nv.gov/>

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