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Renewable Energy Technology is designed to provide students with the theoretical knowledge necessary for a career in the renewable energy fields. Students will acquire hands-on skills in installation, operation, monitoring, repair, and replacement of related equipment. Careers in renewable energy will be increasing dramatically nationally as well as locally. There has been an increasing demand for skilled workers as solar installers, home energy auditors, and many related fields. This program includes general education courses to broaden the students' depth of understanding and prepare them for more advanced degrees or professional positions in a renewable energy field as well as the hands-on skills needed in the profession. Additionally, the program will prepare students with general occupational skills important to be successful in any work environment such as work ethics, reliability, attention to safety, and other primary skills that most employers look for.

Renewable energy trends will affect many local businesses such as building equipment, contractors, and local governments, as well as installers, small businesses, sales, and wholesalers.

Students must demonstrate college-level proficiency in reading, writing, and mathematics before entering this program. Skills in these areas may affect the sequence of courses in which students can enroll and may also extend the time required to complete the program. For more details see the Academic Placement and Testing section.

These certificates are offered at Rifle and through Online Learning. See your campus schedule for the online options. See the section on course descriptions for more information.

Certificate: Basic Solar Photovoltaic This program provides students with essential information and training to work with residential solar photovoltaic systems including providing fundamentals of DC/AC and the National Electric Code, and teaches the principles of a residential solar photovoltaic system. This entry-level certificate will prepare students to take the North American Board of Certified Energy Practitioners' (NABCEP) Basic Photovoltaic Entry Level certification exam.

Graduates of this program will receive a Certificate of Occupational Proficiency in Basic Solar Photovoltaics.

_____	EIC 131 National Electric Code 2011	1.5
	<i>OR</i>	
_____	EIC 130 National Electric Code I *	(4)
_____	ENY 121 Solar Photovoltaic Components	3
_____	OSH 117 10-HR OSHA Voluntary Compliance	1
	<i>OR</i>	
_____	PRO 110 Safety, Health and Environment	(3)
Minimum Credit Hours Required		5.5 -10
Minimum Contact Hours Required		105-172.5

* Please note: Students who intend to pursue the installer certificates must take EIC 130.

Certificate: Photovoltaic Installer This program provides students with the knowledge, skills, and abilities to install solar photovoltaic systems based on regulatory codes and standards. Students will be introduced to the principles of design and operation of solar arrays, material analysis, and various construction features. Basic safety principles will be reinforced. Detailed knowledge of photovoltaic components will be provided, and principles of design and operation of solar panel arrays will be covered, as well as a focus on the National Electric Code requirements for electrical installation. This curriculum will prepare students to take the North American Board of Certified Energy Practitioners' (NABCEP) Basic Photovoltaic Installer certification exam.

Graduates of this program will receive a Certificate of Occupational Proficiency in Photovoltaic Installer.

_____	EIC 130 National Electrical Code I	4
_____	ENY 121 Solar Photovoltaic Components	3
_____	ENY 127 Solar PV System Install	3
_____	ENY 130 Solar Photovoltaic Grid-tie	2
_____	MAT 107 Career Math	3
	<i>OR</i>	
_____	MAT 121 College Algebra	(4)
_____	CAD 101 Computer Aided Drafting I	3
_____	OSH 117 10-HR OSHA Voluntary Compliance	1
	<i>OR</i>	
_____	PRO 110 Safety, Health and Environment	(3)
Minimum Credit Hours Required		19-22
Minimum Contact Hours Required		300-345

Certificate: Solar Thermal Installer This program provides students with essential information and training in order to have the knowledge, skills, and ability to install solar thermal systems. In addition to being introduced to the principles of design and operation of solar panel arrays, students will gain hands-on knowledge and experience in solar domestic hot water systems and solar panel installation. Basic safety principles will be reinforced. This curriculum will prepare students to take the North American Board of Certified Energy Practitioners' (NABCEP) Solar Thermal Installer certification exam.

Graduates of this program will receive a Certificate of Occupational Proficiency in Solar Thermal Installer.

_____	ENY 120 Solar Thermal System Install	4
_____	ENY 225 Solar Domestic Hot Water Systems	3
_____	ENY 226 Solar Panel Installation	4
_____	MAT 107 Career Math	3
	<i>OR</i>	
_____	MAT 121 College Algebra	(4)
_____	CAD 101 Computer Aided Drafting I	3
_____	OSH 117 10-HR OSHA Voluntary Compliance	1
	<i>OR</i>	
_____	PRO 110 Safety, Health and Environment	(3)
Minimum Credit Hours Required		18-21
Minimum Contact Hours Required		370-420