



Okaloosa Technical College

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Syllabus

Program Title: Solar Photovoltaic System Design, Installation and Maintenance
Program Type: Career Preparatory
Career Cluster:

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Program Description: Solar Photovoltaic System Design, Installation and Maintenance

Program Structure:

OCP	Course Number	Course Title	Length	SOC Code
A	EEV0205	Solar Photovoltaic Design Installation and Maintenance Helper	150 Hours	49-9099
B	EEV0206	Solar Photovoltaic Design, Installation and Maintenance Technician	450 Hours	47-2231

Standards:

After successfully completing this program, the student will be able to perform the following:

- 01.0 Demonstrate the importance of health, safety and environmental management systems in organizations and their importance to organizational performance and regulatory compliance.
- 02.0 Identify systems and their components.
- 03.0 Identify global environmental impact issues and issues specific to the industry.
- 04.0 Describe alternative forms of energy and the benefits of environmental awareness.
- 05.0 Demonstrate mathematics knowledge and skills.
- 06.0 Demonstrate science knowledge and skills.
- 07.0 Explain the importance of employability and entrepreneurship skills.
- 08.0 Identify, use and maintain the tools used in the industry.
- 09.0 Adapt a PV design.
- 10.0 Conduct a site assessment.
- 11.0 Read and interpret basic blueprints, job specifications and codes.
- 12.0 Demonstrate a practical knowledge of basic electricity skills and electrical components.
- 13.0 Install PV systems.
- 14.0 Install operation and identification tags and labels.
- 15.0 Perform a system checkout.
- 16.0 Maintain and troubleshoot a solar PV system.
- 17.0 Layout and coordinate a job.
- 18.0 Install solar collectors.
- 19.0 Demonstrate knowledge of PV and electrical wiring.
- 20.0 Install PV and electrical wiring.

Textbooks and/or Equipment/Supplies:

Required: NCCER Core Curriculum, Photovoltaic Systems Third Edition

Additional Resources: 2017 NEC code books will be very helpful. There are some provided in the classroom.

Grading Criteria and Requirements:

Grades will be based on tests and skill assessments

25% Tests

50% Skill Assessment

25% Class Assignments

100%

Grading Scale:

90% and above	=	A
80% - 89.9%	=	B
70% - 79.9%	=	C
60% - 69.9%	=	D
59.9% and below	=	F

Skill Assessment Rubric: 25% of grades will be from testing, 25% of grades will be from Chapter Reviews, 50% of grades will come from class projects and time management.

Make-up Policy:

All testing and assessments will be scheduled per course syllabus. Make-up work is not allowed unless instructor gives prior approval. The instructor may assign additional outside work to be completed for each absence.

Attendance:

See Student handbook for attendance policies. Attendance is not only expected but vital to a student's success.

Class Room/Lab Rules:

- Safety is the first priority. Anyone who intentionally puts others around them in danger will be asked to leave the class. The time missed will be unexcused.
- Safety glasses must be worn at all times while working in the shop.
- Be aware of all of our chemicals and the SDS sheets that go with them. We will add SDS sheets to our list as necessary
- Open Toe Shoes are not ok.
- Shirts must have sleeves. This is for safety, not fashion.
- Full Time is from 7:00am to 1:45pm Monday - Thursday
- If you miss 45 hours you will be dropped from the class
- If you miss six consecutive days you will be dropped from the class.
- You may not make up more than 5% of the hours of enrollment. That means full time students can only make up 22.5 hours.
- Excused Absences can be made up only on the first Friday of the month from 7:00am to 12:00pm. Make up time must be scheduled ahead of time.
- Lunch is from 11:00am to 11:30am.
- It is your responsibility to clock in and out every day. This includes out and back in for lunch.
- Everyone is expected to work on projects in the shop. This is a vocational class and the best lessons will be hands on.
- Lab Participation will be 50% of your grade.
- If you are here for a hobby, not a career, that is fantastic. Please remember that some people are here for new job opportunities. Respect that.
- Everyone is responsible for jobsite cleanup daily.