



TOPIC OF STUDY

Photovoltaic Career Pathways



KEY TERMS

career pathways

LESSON

Photovoltaic Career Pathways

OBJECTIVES

Students will:

- Compare and contrast a variety of PV-related careers
- Design and implement a public service announcement showing PV-related careers aimed towards an 8th-9th grade audiences

BIG IDEA(S)

There are numerous career pathways in the renewable energy industry.

TASK LIST SUBCATEGORY

203 Communicate the value of solar energy to different audiences

OVERVIEW

There are numerous career pathways in the renewable energy industry and the field continues to grow.

STANDARDS

PA/SDP

13.1.11.A. Relate careers to individual interests, abilities, and aptitudes.

INSTRUCTIONAL

MATERIALS NEEDED

Teacher Presentation: [NABCEP PV Career Pathways Brochure](#)

Content: Internet resources listed below

Technology: Devices with audio and video recording software/apps

IMPLEMENTATION (LESSON PLAN)

ENGAGE

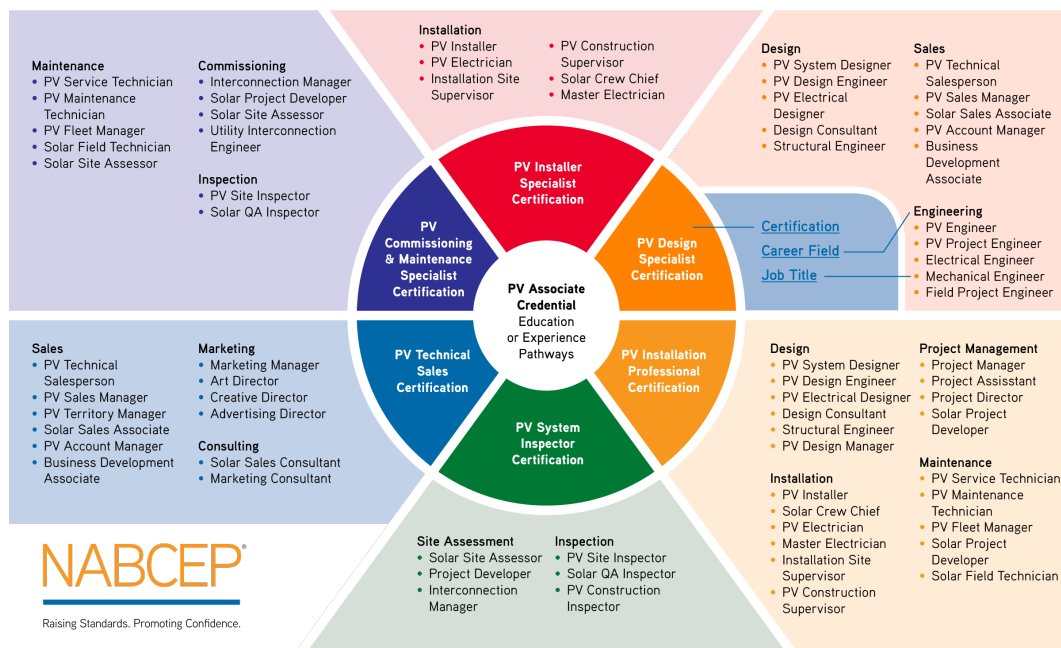
1. Show the following [Solar Jobs video](#) to students. Ask students to list all of the jobs mentioned during the video.
2. Review student answers as a whole class.



IMPLEMENTATION (LESSON PLAN) - CONTINUED

EXPLORE

1. Provide students with a copy of the [Solar Career Wheel from NABCEP](#) pictured below.



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 90 MINUTES

2. Put students into teams of 2-3 individuals per group.
3. Assign each group one of the six sectors of the Solar Career Wheel.
4. Explain to students that they must research their assigned career sector and develop a public service announcement geared toward recruiting 8th or 9th graders to the program. (The teacher should select the format of the PSA based upon available time and technology - either a narrated powerpoint presentation or a 2-3 min video.).
5. Provide students with guidelines of what information to gather and include. Examples include: amount of education, salary ranges, day-to-day tasks, working conditions (indoor/outdoor), positive benefits, skills needed, etc...
6. Provide students with internet resources listed at the end of this lesson to help get them started on their research, including the [IREC Career Map](#).

EXPLAIN

- Student groups share their final presentations to the whole class, including a Q&A session.

EXTEND

1. Students and teachers make arrangements to present to 9th grade classes at their home school.
2. If possible, have students also present to 8th grade classes at local middle schools.

EVALUATE

- Teacher can assess students on both the accuracy and level of detail for the presentations and also on their overall communication skills with the 8th and 9th grade audiences.



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RESOURCES/LINKS

CareerWatch: Become a Solar Panel Installer in 2021

<https://youtu.be/dzPLvdjBNEs>

Interstate Renewable Energy Council

<https://irecusa.org>

IREC Solar Career Map

<http://irecsolarcareermap.org>

NABCEP PV Career Pathways Brochure

<https://www.nabcep.org/wp-content/uploads/2020/11/Certification-Brochure-Career-Map-11.23.2020.pdf>

Solar Jobs

<https://youtu.be/-HsleoJlcFg>

