

✔ Congratulations! You passed!

Grade
received 98.18%

Latest Submission
Grade 98.18%

To pass 80% or
higher

Go to next item

1. When added to crystalline silicon, which element gives a positive charge?

1 / 1 point

- ☐ Phosphorus
- ☐ Arsenic
- ☒ Boron

✔ Correct
Correct! Boron gives a positive charge.

2. Increasing PV cell area increases

1 / 1 point

- ☐ Voltage
- ☒ Current

✔ Correct
Correct! Current will increase as PV cell area increases

3. A string inverter has one or more high DC voltage Inputs and usually adds controls, metering and safety features.

1 / 1 point

- ☒ True
- ☐ False

✔ Correct
Correct!

4. Which components are part of the "balance of system"

1 / 1 point

- ☒ Grounding system

✔ Correct
Correct! There are more correct answers.

- ☐ Polycrystalline module

- ☒ Datalogger

✔ Correct
Correct! There are more correct answers.

- ☒ Disconnect switches

✔ Correct
Correct! There are more correct answers.

- ☐ Cadmium telluride module

- ☒ Bilateral meter

✔ Correct
Correct! There are more correct answers.

- ☒ Inverter

✔ Correct
Correct! There are more correct answers.

5. Standing seam roof mounts avoid roof penetration.

1 / 1 point

- ☒ True
- ☐ False

✔ Correct
Correct! Clamps can be used for standing seam roof mounts so that penetrations are not needed.

6. A typical roof mount with PV adds more than 6 pounds/sq.ft. of roof loading.

1 / 1 point

- ☐ True
- ☒ False

✔ Correct
Correct! A typical mounting system and panel weighs less than 3 pounds/sq.ft.

7. Ground mounting:

1 / 1 point

- ☒ Can provide variable tilt

✔ Correct
Correct! There are more correct answers.

- ☒ Allows trackers to maximize yearly output

✔ Correct
Correct! There are more correct answers.

- ☐ Costs less than roof mounting

- ☒ Allows for the best orientation

✔ Correct
Correct! There are more correct answers.

8. A stand-alone or off-grid system:

0.8 / 1 point

- ☒ Requires a charge controller

✔ Correct
Correct! There are other correct answers.

- ☐ Can only provide power for a few hours.

- ☐ Requires a generator

- ☐ Requires a different type of inverter than grid-tied systems

- ☒ Usually requires a battery bank

✔ Correct
Correct! There are more correct answers.

You didn't select all the correct answers

9. A microinverter:

1 / 1 point

- ☒ Maximizes the power output of one (or two) PV modules

✔ Correct
Correct! There are more correct answers.

- ☐ Controls the charge going from the panel to batteries.

- ☒ Mounts on the module or racking kit.

✔ Correct
Correct! There are more correct answers.

10. Select the option that best describes the flow of energy through a grid tied system.

1 / 1 point

- ☐ Power from solar panels is directed into an inverter where it is split into DC and AC power.
- ☒ DC power from solar panels is converted to AC current by an inverter, then fed into a building's electrical service panel, where it is distributed throughout the building.
- ☐ AC power from solar panels is converted to DC current by an inverter, then fed into a building's electrical service panel, where it is distributed throughout the building.

✔ Correct
Correct!

11. A solar cell converts light to electricity by exciting electrons in silicon cells.

1 / 1 point

- ☒ True
- ☐ False.

✔ Correct
Correct!