Congratulations! You passed!

Grade received 98.57%

Latest Submission Grade 98.57%

To pass 80% or higher

Go to next item

1. A string Inverter: — 1 / 1 point

- [x] May include PV production (kWh) metering
  - Correct: Correct! There are other correct answers.
- [ ] Accepts full PV current through one input
- [x] May have 3 independent inputs
  - Correct: Correct! There are other correct answers.

2. Choose the 3 types of inverters used most frequently in PV systems — 1 / 1 point

- [ ] Cheap square wave output
- [x] String inverter (mid voltage input single or 3 Phase output)
  - Correct: Correct! There are other correct answers.
- [x] Inverter using a battery bank allowing line-tie or stand alone
  - Correct: Correct! There are other correct answers.
- [ ] 1500 VDC 3-Phase slab mounted 1 MW inverter
- [x] Micro inverter (AC from one or two modules)
  - Correct: Correct! There are other correct answers.

3. Modern Inverters provide: — 1 / 1 point

- [x] Over and under line voltage detection and shutdown
  - Correct: Correct! There are other correct answers.
- [x] Over and under frequency shutdown
  - Correct: Correct! There are other correct answers.
- [x] Metering, system data monitoring
  - Correct: Correct! There are other correct answers.
- [x] Arc fault detection and shutdown
  - Correct: Correct! There are other correct answers.

4. A PV module spec sheet: — 1 / 1 point

- [x] Shows IV curves for various conditions
  - Correct: Correct! There are other correct answers.
- [x] Gives dimensions and warranty
  - Correct: Correct! There are other correct answers.
- [x] Shows how current changes with insolation
  - Correct: Correct! There are other correct answers.

5. Temperature coefficient calculations are used to: — 1 / 1 point

- [x] Determine the minimum number of modules in a string (round up)
  - Correct: Correct! There are other correct answers.
- [x] Determine maximum number of modules in a series string (round down)
  - Correct: Correct! There are other correct answers.

6. All PV Inverters come in standard max Voltage input ratings of 600VDC, 1000VDC, 1500VDC. — 1 / 1 point

- ( ) True
- (•) False.
  - Correct: Correct!

7. Oversizing the PV array compared to the inverter rating will: — 1 / 1 point

- [x] Increase the kWh produced over the year
  - Correct: Correct! There are other correct answers.
- [x] Increase the output when there is less insolation
  - Correct: Correct! There are other correct answers.
- [x] Give a flatter output curve over the day.
  - Correct: Correct! There are other correct answers.

8. An inverter with 3 MPP tracking inputs will: — 1 / 1 point

- [x] Allow a different number of modules per string
  - Correct: Correct! There are other correct answers.
- [ ] Cost a lot more
- [x] Allow strings of different orientations
  - Correct: Correct! There are other correct answers.

9. Which of the following statements are true? — 0.8571428571428571 / 1 point

- [ ] To prevent false trips, Circuit Breakers are sized a little larger than the wire current rating.
- [x] New rapid shutdown can be met with microinverters or optimizers at the module level.
  - Correct: Correct! There are other correct answers.
- [ ] More than 2 current carrying conductors in a conduit require additional derating
- [ ] Long wire runs loose significant energy over 30 years
- [x] The NEC Book has the information to calculate proper wire size
  - Correct: Correct! There are other correct answers.
- [x] Larger systems usually use more conduit runs.
  - Correct: Correct! There are other correct answers.
- [x] When in doubt go to the next larger standard wire size
  - Correct: Correct! There are other correct answers.

You didn't select all the correct answers

10. Microinverters and optimizers: — 1 / 1 point

- [x] Wiring has less temperature derating due to being in "free air"
  - Correct: Correct! There are other correct answers.
- [x] Spec sheets contain essential information
  - Correct: Correct! There are other correct answers.
- [x] Provide their own interconnect wiring
  - Correct: Correct! There are other correct answers.