Congratulations! You passed!

Grade received 81.66% | **Latest Submission Grade** 81.67% | **To pass** 80% or higher

Go to next item

1. Select true statements: — 1 / 1 point

- [x] Buildings make up approximately 73% of our electrical usage.
  - Correct: Correct! There are other correct answers.
- [x] Buildings are responsible for about 38% of our generated carbon dioxide.
  - Correct: Correct! There are other correct answers.
- [ ] Solar shingles are highly cost effective.

2. Codes that contain requirements pertinent for solar installations in the U.S. include: — 1 / 1 point

- [x] International Building Code
  - Correct: Correct! There are other correct answers.
- [x] International Residential Code
  - Correct: Correct! There are other correct answers.
- [x] International Fire Code
  - Correct: Correct! There are other correct answers.
- [x] National Electric Code
  - Correct: Correct! There are other correct answers.
- [ ] None of the above

3. Select the statements that are true: — 1 / 1 point

- [x] Codes are updated frequently.
  - Correct: Correct! Solar is changing rapidly, resulting in new codes.
- [ ] Code waivers are easy to obtain.
- [x] In the U.S. code compliance is enforced by inspectors.
  - Correct: Correct!

4. Inverters can be located a long distance away from batteries. — 1 / 1 point

- ( ) True
- (•) False
  - Correct: Correct! The inverter should be placed nearby the batteries.

5. A pure grid-tied system without a battery backup will continue to function in the event of a power outage. — 1 / 1 point

- ( ) True
- (•) False
  - Correct: Correct! To prevent backfeeding the grid, PV systems without batteries will shut down when the power is out.

6. Modern inverters: — 0.5 / 1 point

- [ ] Allow back-feeding to the grid during a power outage
- [x] Interface with the grid.
  - Correct: Correct! There are other correct answers.
- [x] Track the solar array's optimum voltage
  - Correct: Correct! There are other correct answers.
- [ ] Switch to power critical loads only via the battery backup if power is lost

You didn't select all the correct answers

7. If the panel orientation will be East or West, a steep roof pitch is ideal. — 1 / 1 point

- ( ) True
- (•) False
  - Correct: Correct! If orientation is East or West, a shallower pitch roof is better.

8. How much more expensive are solar shingles as opposed to solar panels. — 1 / 1 point

- ( ) Approximately 10x more expensive
- ( ) Approximately 5x more expensive
- (•) Approximately 3x more expensive
  - Correct: Correct!

9. According to the Aesthetics lecture video, the cost of solar from a 500mW power plant is approximately: — 0 / 1 point

- (•) Approximately $0.09 to $0.11/ kWh
- ( ) Approximately $0.04/ kWh
- ( ) Approximately $0.06/ kWh
  - Incorrect: Incorrect. This is the cost for a small home system, without incentives.

10. What types of mechanical loads should be considered when designing a PV system? — 0.6666666666666666 / 1 point

- [x] Snow loads
  - Correct: Correct! There are other correct answers.
- [x] Earthquake/seismic loads
  - Correct: Correct! There are other correct answers.
- [x] Dead loads
  - Correct: Correct! There are other correct answers.
- [x] Wind loads
  - Correct: Correct! There are other correct answers.
- [ ] Hydrostatic loads
- [ ] Live loads

You didn't select all the correct answers