Congratulations! You passed!

Grade received 90% | Latest Submission Grade 90% | To pass 80% or higher

Go to next item

1. What forces might impact a PV system? — 1 / 1 point

- [x] Uplift
  - Correct
    Correct! This is often the strongest force for roof mounting. There are other correct answers.
- [x] Slide resistance
  - Correct
    Correct! There are other correct answers.
- [x] Drag force
  - Correct
    Correct! There are other correct answers.
- [x] Overturning
  - Correct
    Correct! There are other correct answers.

2. Which factors are part of the drag force calculation? — 1 / 1 point

- [x] Density of the fluid
  - Correct
    Correct! There are other correct answers.
- [x] Speed of the object relative to the fluid
  - Correct
    Correct! There are other correct answers.
- [x] Drag coefficient
  - Correct
    Correct! There are other correct answers.
- [ ] Bending stress

3. Lag bolts typically penetrate wood by 1 to 2 inches. — 0 / 1 point

- (•) True
- ( ) False.

Incorrect
Incorrect. Lag bolts typically penetrate wood by 2 to 3 inches.

4. Flat roofs are typically engineered to take on massive amounts of additional weight. — 1 / 1 point

- ( ) True.
- (•) False

Correct
Correct! Flat roofs are often designed just at the limit of what they can take in terms of additions and snow load.

5. To measure a roof's excess capacity that can be used for solar panel installation, one must consider: — 1 / 1 point

- [x] The weight bearing capacity of the roof.
  - Correct
    Correct! There are other correct answers.
- [x] The weight of items on the roof, and hanging from the inside.
  - Correct
    Correct! There are other correct answers.
- [x] The maximum snow load.
  - Correct
    Correct! There are other correct answers.
- [ ] The building's occupancy capacity.

6. A solar PV system's weight could be reduced by eliminating rails or by spreading the weight over a larger area. — 1 / 1 point

- (•) True
- ( ) False

Correct
Correct!

7. An inverter's efficiency is lower at a small load. — 1 / 1 point

- (•) True
- ( ) False

Correct
Correct!

8. Ballasts typically weigh approximately: — 1 / 1 point

- ( ) 3 to 4 pounds per square foot.
- (•) 5 to 10 pounds per square foot.
- ( ) 12 to 15 pounds per square foot.

Correct
Correct!

9. To avoid wind damage: — 1 / 1 point

- [x] Obtain maximum local wind gust data
  - Correct
    Correct! There are other correct answers.
- [x] Lower the tilt angle of the modules
  - Correct
    Correct! There are other correct answers.
- [x] Add additional ballast
  - Correct
    Correct! There are other correct answers.
- [ ] Increase the tilt angle of the modules

10. Using the Load lesson's reading: Full Sun Hours Chart, select the best tilt for maximizing output in January. — 1 / 1 point

- ( ) Latitude -15 degrees
- (•) Latitude +15 degrees

Correct
Correct!