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**NABCEP PV ASSOCIATE EXAM / 100+ QUESTIONS
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Terms in this set (130)

An off-grid installation has a 1HP pump that is on 10% of the time and a 20W light that is on 100% of the time. What is the monthly energy use?	68KWh $1HP = 746W$ $746W \times 0.1 \times 24\text{hours} \times 30\text{days} = 53712\text{Wh}$ $20W \times 24\text{hrs} \times 30\text{days} = 14400\text{Wh}$ $14400 + 53712 = 68112\text{Wh}$ 68kWh
Inverters detect dc the inverter at the What kind inverters do most inverters voltage is thousands of volts, via a transformer	DC ground faults. AC ground faults are detected on the AC side of of ground faultsdistribution paned (MSP, load center). Most detect?are not connected to high or medium voltage. Medium large utility scale inverters are connected to medium voltage
Current carrying ability of a conductor (wire) is called	Ampacity
According to ohms law and voltage drop, the relationship between voltage drop and current is	Proportional. Ohms law: $V = I \times R$ More current makes more voltage drop. This is a reason why we need a larger wire with more current, so the wire resistance is less with a larger wire and there will be less voltage drop.

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NABCEP PVIP Board Certification exam is an essential achievement for professionals in the photovoltaic installation industry. It demonstrates an individual's competence in designing, installing, and maintaining photovoltaic systems according to industry best practices, codes, and regulations. By demonstrating their proficiency through the NABCEP PVIP Board Certification exam, PV installation professionals distinguish themselves as leaders in the field of renewable energy.

NABCEP PVIP Certification Exam is a rigorous and comprehensive exam designed to test the knowledge and skills of professionals in the solar energy industry. It is recognized as the industry standard for solar professionals, and is a requirement for many job positions in the solar energy industry. If you are interested in pursuing a career in the solar energy industry, obtaining the NABCEP PVIP certification is a great way to demonstrate your expertise and increase your job opportunities.

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NABCEP PV Installation Professional (PVIP) Board Certification Sample Questions (Q135-Q140):

NEW QUESTION # 135

A grid-tied PV system uses a transformerless inverter with a maximum DC input of 1000V. The array consists of 20 modules, each with a Voc of 45V. What is the NEC 690.7 correction factor for a low temperature of -15° C if the temperature coefficient is -0.30%/°C?

- **A. 1.18**
- B. 1.15
- C. 1.12
- D. 1.21

Answer: A

NEW QUESTION # 136

A grid-connected PV system on a dwelling is producing 30% less power than expected. The conductors from three strings of modules enter into a 3-pole fused dc disconnect, and each ungrounded conductor is connected to a separate pole. On the inverter side of the switch terminals, the three strings are combined. The dc disconnect switch is opened. The voltages on the array side of the switch are 440 on string #1, 444V on string #2, and 0V on string #3. The dc disconnect is then closed and the inverter resumes operating, still producing about 30% less power than expected. A clamp-on ammeter is used to measure the dc current of each string of each string of modules where they enter the rooftop junction box. The operating currents of each string are 3.9A for string #1, 3.85A for string #2, and 4.3 A for string #3. What is the MOST likely with the system?

- A. String #3 has an open connection and is not contributing any voltage.
- **B. Positive and negative output conductors of string #3 are faulted together.**
- C. There is lower module mismatch in string #3 than in string #1 and #2.
- D. A ground fault is causing the current from strings #1 and #2 to flow into string #3.

Answer: B

NEW QUESTION # 137

With all other environmental parameters being the same, which would be the expected reduction in KM performance of a PV system after an irradiance drop from 810w/m² to 740w/m²?

- A. 10.2%
- **B. 8.6%**
- C. 7.4%
- D. 9.5%

Answer: B

NEW QUESTION # 138

Which insulation color is allowed for a current-carrying rooftop dc conductor on a functionally grounded 6kw PV system?

- A. White
- B. Green/yellow
- C. Green
- **D. Red**

Answer: D

NEW QUESTION # 139

On a PV system larger than 100kw, which PV array design will provide the HIGHEST degree of performance monitoring, Granularity, and ease of troubleshooting performance issues?

- A. Multiple-string inverter system with data acquisition system located at each dc combiner
- B. Multiple-string inverter system with data acquisition system located at each inverter.
- C. Multiple-string inverter system with monitored dc-to-dc converters located at each module
- D. Central inverter with data acquisition system located at the inverter.

Answer: A

NEW QUESTION # 140

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