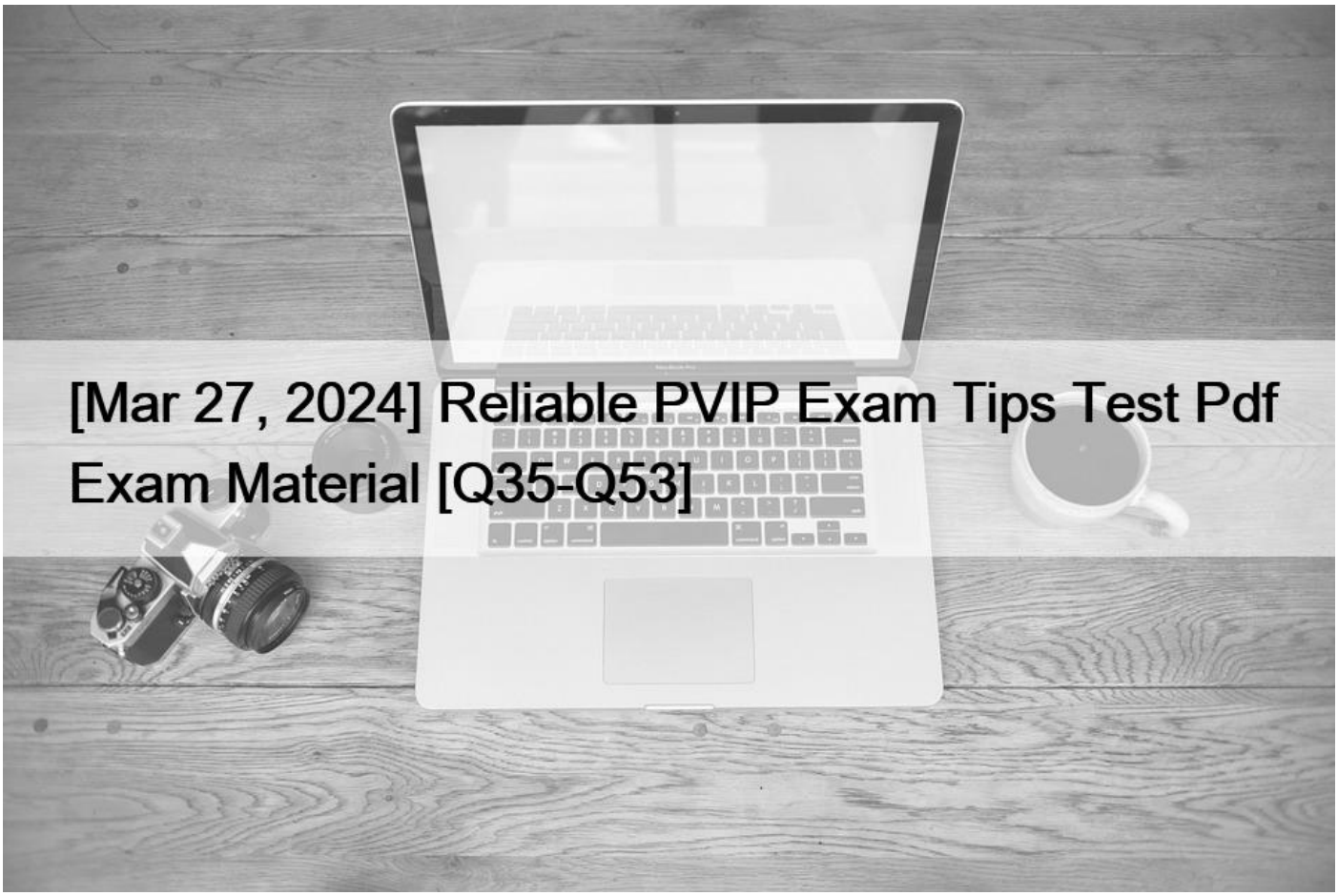
[Mar 27, 2024 Reliable PVIP Exam Tips Test Pdf Exam Material [Q35-Q53



[Mar 27, 2024] Reliable PVIP Exam Tips Test Pdf Exam Material
New 2024 PVIP Test Tutorial (Updated 72 Questions)

The North American Board of Certified Energy Practitioners (NABCEP) is a non-profit organization that offers certification for professionals in the renewable energy industry. The organization focuses on promoting high standards and professionalism in the industry. One of the certifications offered by NABCEP is the PV Installation Professional (PVIP) Board Certification.

QUESTION 35

Which of the following MUST be referenced for determining a site’s design wind speed?
* The NEC version in effect
* The jurisdiction’s local building code in effect
* The ASHRAE Handbook_fundamentals in effect
* The module manufacture’s design wind speed

QUESTION 36

The point-of-utility connection of a residential utility-interactive PV system is in the main distribution panel. If the busbars of the main distribution panel are rated at 200A, and if the distribution panel has a 200A main breaker, the rated output current of the inverter cannot exceed.
* 24A
* 32A
* 40A
* 200A

QUESTION 37

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?
* Central inverter with data acquisition system located at the inverter.
* Multiple-string inverter system with data acquisition system located at each inverter.
* Multiple-string inverter system with data acquisition system located at each dc combiner
* Multiple-string inverter system with monitored dc-to-dc converters located at each module

QUESTION 38

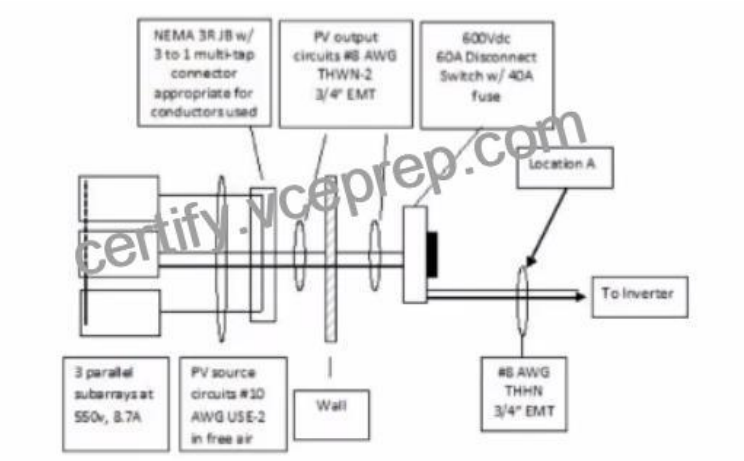
Most electric service providers require interactive PV equipment to comply with which for interconnection to their distribution grid?
* UL 16998
* UL 1741
* UL 2703
* UL 60947-1

QUESTION 39

Which of the following is the required MINIMUM width of the working space In front of ac disconnect equipment?
* 30 in. from all exposed live parts and terminals
* 30 in. or the width of the ac disconnect, whichever is greater
* 36 in. from the right and left edges of the inverter
* 36 in. from the top of the ungrounded inverter terminals

QUESTION 40

The following dc portion of a PV schematic (functionally grounded conductor not shown) is submitted to the building official for permit approval. The building official, who also is he AHJ, allow the system to be installed by requiring what NEC-required MINIMUM size equipment grounding conductor at Location A?



* #12 aluminum
* #10 copper
* #8 copper
* #6 aluminum

QUESTION 41

The NEC requires that PV systems installed on dwellings incorporate which of the following components?
* A dc ground-fault protect device
* Blocking diodes across each module
* Dc lightning surge arrestors
* A lockable utility disconnect at the point-of-utility interconnection

QUESTION 42

How should stratification be eliminated in a set of large, stationary, stationary flooded lead-acid batteries?
* Rotate the battery positions
* Add 50% diluted sulfuric acid.
* Enable equalization.
* Discharge to 80 depth of discharge.

QUESTION 43

A ground resistance measurement on a newly installed grounding electrode indicates a resistance of 130. The earth connection may be improved by connecting the existing electrode to a:
* Supplemental grounding electrode located 5 ft, away.
* Supplement 1/4 in, in thick aluminumplate electrode buried 30 in. down and located 7 ft, away.
* Supplemental copper plated steel grounding electrode located 8 ft, away.
* Buried water piping system using 40 ft. of 2 in. PVC piping located 10 ft awat.

QUESTION 44

According to the NEC, where on a residential PV system MUST the labeling describing the type of rapid shutdown be located?
* On the rapid shutdown initiation device.
* On or no more than 1 m (3. 3 ft) from the service disconnecting meant

* At point on the residence designated by the AKJ and fire marshal
* A close as practicable to the PV array requiring rapid shutdown

QUESTION 45

A homeowner is weighing the PV module options for a roof-mounted solar array. Which is a correct option to present to the homeowner?
* Building-integrated PV shingles will be flush or nearly flush with other shingles, but the electrical energy produced will be less than polycrystalline or monocrystalline modules.
* Rapid shutdown requirements within 1 ft of the array boundary.
* Polycrystalline modulesare more shade-tolerance than eitheramorphous or monocrystalline modules and allow a larger array to be installed, including in area where shading could be seasonally problematic.
* Microinverters can be installed with either polycrystalline or monocrystalline modules, negating the need for rapid shutdown compliance.

QUESTION 46

Aerial lifts used to hoist equipment and PV modules to roof levels may be fieldmodifiedfor uses other than those intended by the manufacturer with which approval or certification?
* Certified in writing by the manufacturer or an NRTL
* Certified via the state material handling safely statutes
* Approval by the local AHJ for meeting safely regulations
* Tested and approval by the distributor of the equipment

QUESTION 47

A 1. 100 ft, 2 ranch home with cathedralcallingshas a 14 ft. x 41 ft. 8 in , south-facing , composite shingle roof. An engineer has determined that the home’s 2 in, x 6 in. on-center roof rafters are strong enough to gold a solar electric system. The system will have 62.25 in. x 32.50 in. modules with a 1-in gap between modules and a standard twin-rillmounting system number of modules that can fit on the roof on under these conditions?
* 28 modules in portrait
* 30 modules in portrait
* 35 modules in landscape
* 40 modules in landscape

QUESTION 48

Which insulation color is allowed for a current-carrying roottop dc conductor on a functionally grounded 6kw PV system?
* Red
* White
* Green
* Green/yellow

QUESTION 49

An 8KWsc roof-mounted array is placed on a school building. The inverter is located within 1 ft, of the array boundary and has an integrated ac-and dc-disconnecting switch. The system is to be connected to a 400A load center, protected by a 400A main breaker. Which of the following MUST be included to meet NEC requirements?
* A rapid shutdown initiationdevice operating contractor within 1 ft, of the array to de-energize the dc subarrays
* A readily accessible dc disconnect with rapid shutdown initiation device permanently labeled

* An ac-disconnect label with the location of the rooftop dc-disconnect switch.
* A readily accessible ac-disconnecting switch, who location is identified on the system directory

QUESTION 50

A residential PV system uses two 120.240Vac utility-interactive inverters with a sealed lead-acid battery energy backup for protected loads. The MOST important protected load consideration when operating in the backup mode is that:
* The protected loads must have automatic restart function.
* All protected loads are connected in multiwire branch circuits.
* The peak current from the sealed lead- acid batteries must not exceed peak demand currents.
* The stand-alone system configuration can adequately supply current to all protected load branch circuit.

QUESTION 51

In the middle of a winter day, the data acquisition system for a ground-mounted PV system with large central inverters sends an email alert that system performance is at 50% based on irradiance and temperature performance calculations. No inverters are completely offline. The closed technician is a 4-hour drive from the site, and there are no cameras on site. Which is the BEST response to this situation?
* Dispatch the technician to the site t investigate the low performance issue in person.
* Review power output and weather conditions via the monitoring portal, and review local weather reports.
* Report the low performance to theinverter manufacturer and request that a technical be sent to the site for a warranty claim.
* Call the data acquisition company to report a monitoring system failure.

QUESTION 52

A AWG THWN-2 PV output conductors from two PV arrays are run in the same 3 in, conduit to their respective functionally grounded inverters in the building. The three PV source circuits are each protected by a

15A fuse in the combiner box at the array. The conduit, which is strapped directly to the roof,is exposed to design temperatures of 140′ F (60’C) during its 30 ft.

Exposed run. What is the MAXIMUM current carrying capability value of the PV output conductors?
* 61A
* 54A
* 42A
* 34A

QUESTION 53

A ground-mounted PV system operating with an open-critical voltage of 550V is in a public park. Which installation procedure will meet NEC requirements for protecting the public from potential electric shock?
* Ground the PV module frames, but not the mounting racks, to local grounding electrodes.
* Mount the PV modules on a one-axis (north-south) tracker, with supporting structures listed to UL 2703.
* Install a physical barrier on the back of the PV modules that prevent that prevents the conductors from being touched.
* Install PV modules with plastic, insulating the frames, and connect to a grounding electrode at the array.

PVIP Cert Guide PDF 100% Cover Real Exam Questions: https://www.vceprep.com/PVIP-latest-vce-prep.html]