

WRITTEN ASSESSMENT

Install/Disconnect Mobile Generators

WORKBOOK

Trainee Name:	
Date:	Time:
Location:	
Trainer:	

Assessment Questions

1. The following generators are available for hire; 50kVA, 100kVA, 150kVA, 200kVA, 250kVA, 275kVA and 330kVA. Determine the generator you would select if you are going to install a generator for where:

a. The load is supplied by a 250kVA transformer.

Answer: _____

b. The pillar has 6 houses connected to it;

Answer: _____

c. The 3 phase consumer supply is protected by 110A per phase fuse.

Answer: _____

2. An LV feeder supplies the following:

- 12 houses
- 8 units
- a load protected by 3 phase 50A fuses.

Calculate the estimated load of this LV feeder in kVA.

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3. In accordance with the Mobile Generator Noise Management Plan, what activities need to be undertaken prior to installing a generator.

4. What considerations should be taken with regards to the exhaust of the generator?

5. Which parts of the generator should be electrically bonded together to form a generator frame bonding system?

6. Are you allowed to use earth stakes for the generator earth? If so, that are the requirements?
(Circle answer) YES NO

7. If the generator has an Earth Leakage/Fault or Residual Current type protection incorporated with its control system, are there any special requirements with regards to these protections. Explain.

8. Below is the connection procedure for a PWC Package / Kiosk Substation. Place the following in correct sequence (place a number beside each 1 to 7).
- The phase leads of the generator are connected to the load side of the LV isolator generator terminals.
 - The generator earth is connected to the established LV earth busbar.
 - Check and record phase rotation of the LV supply.
 - The neutral lead of the generator is connected to the neutral busbar of the Package substation.
 - Remove the LV isolator links on all phases to isolate the busbar/LV circuits from the transformer LV bushings.
 - With the generator running, confirm correct phase sequencing and perform polarity testing.
 - Test LV busbars and Circuits to prove de-energised.

9. Where a generator is installed and operated for an extended period of time, how often should the generator be visited for inspection and what work is undertaken during the inspection.

10. What is meant by “Cool Down” period when shutting down a generator and how long should the cool down period be?
