

## Topic 1 Lesson 1 Assessment

1) To Improve energy management practices, it need to

- a) Establish an energy baseline and use it to estimate savings from energy-saving measures
- b) Build better business cases for your efficiency projects
- c) Measure and verify guaranteed savings for energy performance contracts, building upgrade finance, or similar

Insert question

EditSplit button!  
1 point

2) The meter with advanced metering devices in which current and voltage act on solid-state electronic elements to produce an output proportional to the energy measured. is

- a) electro-mechanical meters
- b) Solid-state electric (static) meters
- c) transformer-operated meters

Insert question

EditSplit button!  
1 point

3) Measurement parameters are

- a) active energy
- b) reactive energy
- c) active power
- d) reactive power
- e) apparent power
- f) power factor –
- g) voltage
- h) current
- i) harmonic distortions
- j) all above

Insert question

EditSplit button!  
1 point

4) The potential users of Automated measurement and verification (M&V) for ESC creation are

- a) Facilities manager
- b) Building manager
- c) Process operator
- d) External consultant
- e) Process operator

- f) Accredited certificate provider
- g) Company director
- h) Sustainability officers

Insert question

EditSplit button!  
1 point

5) Energy savings certificates

- a) Measure and verify guaranteed savings for energy performance contracts, building upgrade finance, or simila
- b) Support your compliance with the Commercial Building Disclosure regulations, which include obtaining a NABERS rating
- c) Gain a financial advantage – provide data for creation of energy savings certificates under the NSW Energy Savings Scheme

Insert question

EditSplit button!  
1 point

6) The system that Interfaces with any existing control and management systems, e.g. BMS, PLC, SCADA is

- a) Commercial Building Disclosure Program
- b) Building management and control systems
- c) Optimal facility operation

Insert question

EditSplit button!  
1 point

7) the meters which are directly connected to electrical circuits, with a rated capacity up to 100 amps, which is passed through the meter without a CT.

- a) direct-connected (whole current) meters
- b) transformer-operated meters
- c) Solid-state electric (static) meters –

Insert question

EditSplit button!  
1 point

8) Instrument transformer accuracy classes are set out in

- a) AS 1284.1
- b) AS 62053.21
- c) AS 60044.1-2007

Insert question

EditSplit button!  
1 point

9) The group which provides reports on energy consumption, energy performance, allocation of costs etc is

- a) Engineering
- b) Maintenance team
- c) ICT Support
- d) Key person or group

Insert question

EditSplit button!  
1 point

10) The poor result causing excessive alerts or alarms, Alerts and alarms ignored or overridden, leading to inefficiencies in operations is caused by application of

- a) Energy meter billing reports
- b) Analytics and diagnostics and fault detection
- c) Corporate sustainability reporting

## 8AWGLJH

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### Access Links

Test Link <https://www.classroomclipboard.com/503511/Test/14EEB540-AD88-416A-8776-09EF7ACBAD08>

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1)

Where controlled load functionality is required and Type ( ) metering is installed

- a) 3
- b) 4
- c) 5
- d) 6

Insert question

EditSplit button!  
1 point

2) When an E2/E2c meter is used as the control mechanism for the controlled load circuits of a customer's installation, the precautions outlined in this clause must be adhered to. ( ) of an E2/E2c meter must be utilised (i.e. primary and controlled load elements)

- a) Both elements
- b) E2 only
- c) E2c only

Insert question

EditSplit button!  
1 point

3) Any gas meter, fittings, enclosures or other obstructions installed below the service metering panel must not project further than from the face of the wall on or in which the service metering panel is mounted.

- a) 100 mm
- b) 200 mm
- c) 300 mm
- d) 400 mm

Insert question

EditSplit button!  
1 point

4

- a) 1.5
- b) 3
- c) 5
- d) 7

Insert question

EditSplit button!  
1 point

5) Metering equipment can be installed behind locked gates or doors without any provision

- a) True
- b) False

Insert question

EditSplit button!  
1 point

6) The maximum current rating of any fuse carrier and fuse base combination (the fuse assembly) used for a meter protection device shall always be equal to or greater than the fuse element rating, but in no case less than ( ) amp.

- a) 100
- b) 150
- c) 200
- d) 250

Insert question

EditSplit button!  
1 point

7)

Metering CTs must be:







Topic 1 Lesson 6 assessment

**2B9E7J**

Version 1 (Published 2/16/2024 1:48 AM)

**Access Links**

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Test Link <https://www.classroomclipboard.com/503511/Test/95D6F139-19A6-4929-A0DE-9769192D01DD>

1) Pre test visual inspection includes

- a) The location is correct • Isolation is correct
- b) Labels are installed • No visible damage to equipment
- c) • Equipment is ready for testing • Wiring is complete with no visible damage
- d) • Connections are correct, complete and mechanically sound • Alternative supplies are identified and managed
- e) • Persons and animals are clear of any object that may become energised during testing • Workers notified of testing in progress
- f) All above

XX

Topic 1 Lesson 7 assessment

1) Calculated loads greater than ( ) per phase or measured loads greater than ( ) per phase shall require current transformer metering.

- a) 80 A ,80 A
- b) 80 A ,100 A
- c) 100 A ,80 A
- d) 100A,200A

Insert question

EditSplit button!



1 point

2)

All metering shall be connected with suitable active isolation devices connected to the ( ) side of the metering to allow safe access to the metering equipment

- a) Line
- b) Consumer

Insert question

EditSplit button!  
1 point

3)

Direct connected metering shall be installed on the( ) of the individual installation's main switches a

- a) Consumer side
- b) line side

Insert question

EditSplit button!  
1 point

4)

A minimum clearance of ( )mm is required between any item of metering or control equipment and the edge of the panel

- a) 10
- b) 15
- c) 25
- d) 50

Insert question

EditSplit button!  
1 point

5) Current Transformers to be installed in low voltage switchboards that form part of the metering installation, shall be manufactured and type tested to AS60044.1–2007 Class ( ) with the availability of a Type Test Certificate

- a) 0.2S
- b) 0.4S
- c) 0.5S
- d) 0.6S

Insert question

EditSplit button!  
1 point

6) For Rated Burden of 15 VA, Max Circuit Length 2.5 mm <sup>2</sup>for meter circuit length is

- a) 10m
- b) 20m
- c) 30m
- d) 45m

Insert question

EditSplit button!  
1 point

7)

In general, meter panels for current transformer metering shall be installed remote from the switchboard.

- a) True
- b) False

Insert question

EditSplit button!  
1 point

8)

The minimum spacing between revenue meters/meter wiring and conductors carrying heavy currents of Conductor Current 400A is

- a) 125
- b) 250
- c) 375
- d) 500

Insert question

EditSplit button!  
1 point

9)

The insulation on all voltage and current meter wiring should be stripped back 15mm (30mm where doubled up 2.5mm<sup>2</sup> is used) to ensure terminal screws make positive contact with the bare conductor

- a) True
- b) False

Insert question

EditSplit button!  
1 point

10)

Cable tails through meter panels should have a minimum length of ( )to allow for

connection into the meters.

- a) 100 mm
- b) 150 mm
- c) 200 mm
- d) 250 mm

## **J7LLGN**

### **Access Links**

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Test Link	<a href="https://www.classroomclipboard.com/503511/Test/963B24DC-D718-4C0D-B2C2-D6D1D0009F0D">https://www.classroomclipboard.com/503511/Test/963B24DC-D718-4C0D-B2C2-D6D1D0009F0D</a>
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### Topic 1 Lesson 8 Test

1

- ) Always locate your generator in a well ventilated area..Be sure the total electric load is withinthe manufacturers rating.  
Use an indoor/outdoor, grounded (three prong) extension cord, properly sized to carry the electric load and keep it out of the way to prevent someone from tripping on it. Never plug your generator into an indoor or outdoor home or business outlet.  
Don't overload your generator. Remember, more power is needed to start appliances, particularly those with a motor inside, than is needed to keep them running. To be sure your generator can handle the load, check the owner's manual.

- a) True
- b) False

## **HSXFF**

Version 1 (Published 2/16/2024 3:04 AM)

### **Access Links**

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- b) arc flash explosion
- c) fire
- d) slip, trip and fall

Insert question

2)

The light and heat produced from an arc fault - created by a short circuit between two conductors; phase to phase or phase to earth is

- a) Magnetic radiation
- b) Electric wave radiation
- c) Arc flash

Insert question

3)

The radiant energy released by an electric arc is capable of permanently injuring or killing people. Arc flashes may cause severe burns to the skin and flash burns to the face and eyes. Inhaled hot gases and molten particles can cause serious internal burns to the throat and lungs. Injury can also occur through the impact from flying debris and dislodged components, or by the concussive blast.

- a) True
- b) False

Insert question

4)

Working de-energised eliminates significant electrical risks. The following are the key steps for an effective isolation of electrical supply

- a) Consultation
- b) Isolation
- c) Securing the isolation:
- d) Tagging
- e) Testing
- f) All above

Insert question

5)

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c) Flat Rate (Type 5 BASIC)

Insert question

EditSplit button!  
1 point

2)

The HLA is suitable for ( ) installations in the Ausgrid network area.

a) Flat Rate (Type 6 BASIC)

b) Flat Rate (Type 5 BASIC)

c) variable rate

Insert question

EditSplit button!  
1 point

3)

The AMT is ( ) accumulation meter.

a) Single phase single elements

b) Single phase multi element

c) a polyphase multi elements

d) a polyphase single element

Insert question

EditSplit button!  
1 point

4)

The HLE is suitable for Flat Rate (Type 6 BASIC) installations in the Ausgrid network. It can be used for ( ) installations.

a) Residential

b) Commercial

c) Industrial

Insert question

EditSplit button!  
1 point

5) The following points should be used to ensure correct installation of the meter:

a) • Meter seals must not be broken.

b) • Once meter is energised the display will become active

c) • Ensure the metrology LED on the front of the meter is pulsing to indicate energy consumption.

- d) • Ensure reverse energy indicators are not showing.
- e) • The terminal cover (meter scoop) must be sealed following the installation.
- f) All above

Insert question

EditSplit button!  
1 point

6) This meter connection is

- a) Direct connected
- b) CT metering
- c) PT metering

