

Assessment



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Module Name:

Electrical Safety for Skilled Workers



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Multiple Choice Questions (MCQs)

01 Electrical systems operating between 1.1 kV and 33 kV are called:

- a) Low voltage systems
- b) Extra low voltage systems
- c) High voltage systems
- d) Ultra high voltage systems

02 Before starting work on an HT panel, the circuit must be:

- a) Switched off locally
- b) Covered with insulation
- c) Isolated and proven dead
- d) Marked with warning tags only

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Multiple Choice Questions (MCQs)

03 Minimum safe clearance required for working near a 33 kV system is:

- a) 2.0 m
- b) 2.4 m
- c) 2.6 m
- d) 2.8 m

04 Which of the following should never be bypassed in HT panels?

- a) Name plate
- b) Interlocks
- c) Panel labels
- d) Indicator lamps

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Multiple Choice Questions (MCQs)

- 05 Voltage testing in LT panels should be done at:
- a) Incoming feeder
 - b) Main bus bar
 - c) Output side of protective devices
 - d) Neutral link
- 06 Capacitor banks are hazardous mainly because they:
- a) Operate at high temperature
 - b) Store electrical energy after isolation
 - c) Use large conductors
 - d) Are connected to motors

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Multiple Choice Questions (MCQs)

- 07 Protective devices for capacitor banks should be rated at:
- a) Equal to capacitor current
 - b) 1.1 times capacitor current
 - c) 1.25 times capacitor current
 - d) 1.5 times capacitor current
- 08 Which RCCB rating is mandatory for socket outlets for personal protection?
- a) 300 mA
 - b) 100 mA
 - c) 30 mA
 - d) 10 mA



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Multiple Choice Questions (MCQs)

09

Q9. MCB Type C is suitable for:

- a) Lighting circuits only
- b) Sensitive electronic equipment
- c) Inductive loads like motors and pumps
- d) Transformer protection only

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Which item is NOT allowed while working on battery banks?

- a) Insulated gloves
- b) Adequate ventilation
- c) Metallic jewellery
- d) Fire extinguisher nearby



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Short-Answer Descriptive Questions (with Answers)

01

Why must HT equipment be treated as live until proven dead?

Answer:

Because hidden or stored energy sources may still be present, and assuming equipment is dead can lead to fatal electric shock.

02

Why is grounding mandatory before working on capacitor banks?

Answer:

Because capacitors store electrical energy and grounding ensures complete discharge to prevent electric shock.



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Short-Answer Descriptive Questions (with Answers)

03 What is the purpose of a 30 mA RCCB?

Answer:

It provides personal protection by disconnecting supply quickly during earth leakage to prevent electrocution.

04 Why are proper electrical joints important for safety?

Answer:

Poor joints cause overheating, insulation failure, short circuits, and can result in electrical fires.

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Correct Answers of MCQs

1.c

2.c

3.d

4.b

5.c

6.b

7.d

8.c

9.c

10.c