

ESC Practice Test Questions and Answers

1. What causes an arc flash event?

- A) Overloaded neutral conductors
- B) An electrical arc traveling through ionized air between conductors or to ground
- C) A ground fault in a 120V circuit
- D) Overheating of insulated conductors

2. What is the limited approach boundary?

- A) The distance inside which only qualified persons may approach exposed energized conductors
- B) The distance at which arc flash energy equals 1.2 cal/cm²
- C) The outer perimeter of any arc flash hazard area
- D) The maximum reach distance for insulated tools

3. What is the main bonding jumper used for?

- A) To connect two separate services together
- B) To connect the grounded conductor to the equipment grounding conductor at the service
- C) To bond conduit sections together
- D) To connect ground rods in series

4. What does ATPV stand for in arc-rated PPE?

- A) Arc Thermal Performance Value — the incident energy at which there is a 50% probability of a second-degree burn
- B) Arc Testing Protocol Voltage
- C) Average Thermal Protection Value
- D) Arc-rated Thermal Protective Vest

Answers: 1-B 2-A 3-B 4-A

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