

American Electric Power Practice Test Questions and Answers

1. What is the primary function of a power transformer in the electrical grid?

- A) Generate electricity
- B) Change voltage levels for efficient transmission
- C) Store electrical energy
- D) Convert AC to DC power

2. Which safety procedure is most critical when working on high-voltage transmission lines?

- A) Wearing safety glasses
- B) Proper lockout/tagout and de-energization procedures
- C) Using insulated tools only
- D) Working during daylight hours

3. What causes power factor to be less than unity in electrical systems?

- A) Resistive loads only
- B) Reactive components (inductance and capacitance)
- C) High voltage levels
- D) Low current flow

4. Which type of power plant provides the most flexible response to changing electricity demand?

- A) Nuclear power plant
- B) Coal-fired power plant
- C) Natural gas peaking plant
- D) Solar power plant

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

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