NATE Practice Test Questions and Answers

1. What is a dual-fuel heat pump system?

A) A heat pump that uses both R-410A and R-32 refrigerants

B) A heat pump paired with a gas furnace that automatically switches to gas heat below a set outdoor temperature

C) A system with two compressors for redundancy

D) A heat pump that can use solar and grid electricity

2. What does HSPF2 measure for a heat pump?

A) Cooling efficiency over a season

B) Heating efficiency measured as total heat output divided by total electrical energy over the heating season

C) Defrost cycle frequency

D) Compressor efficiency ratio

3. What is a puffback in an oil heating system?

A) Small backfire explosion caused by igniting accumulated unburned oil in the combustion chamber

B) Reverse airflow through the flue

C) Oil pump pressure surge

D) Excessive combustion air condition

4. What is subcooling in an air conditioning system?

A) Cooling the suction line below ambient

B) Number of degrees liquid refrigerant is cooled below its saturation temperature

C) Reducing condenser fan speed

D) Lowering the thermostat setpoint

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

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