

# NATE - North American Technician Excellence 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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