

1. The following information is available about two AHU alternatives:

<u>Alternatives</u>	<u>Annual Utility Cost</u>			
	<u>First Cost</u>	<u>Electrical</u>	<u>Chilled Water</u>	<u>Steam</u>
Constant Volume (US \$)	500,000	350,000	200,000	200,000
Variable Volume (US \$)	700,000	300,000	150,000	150,000

What is the simple payback of installing a variable volume AHU?

- A. 1.33 years
- B. 1.25 years
- C. 1.40 years
- D. 1.17 years

Objective 1B

Task 1

Application

Answer: A

2. Who is responsible for compliance with ANSI/ASHRAE/ACCA Standard 180 (2008) *Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems*?

- A. performance contractor
- B. building engineer
- C. maintenance supervisor
- D. building owner

Objective 2A

Task 3

Recall

Answer: D

3. An Operations and Performance Management Professional has reviewed data from the building information management system for a large-capacity gas-fired hot water heating boiler. The data indicate that the boiler burner is experiencing numerous outages and its condition has degraded to a point it can no longer be repaired. The building is presently experiencing freezing weather conditions that are expected to continue for more than 60 days. Which of the following is the professional's best action?

- A. Meet with the owner and maintenance staff to develop a plan for burner replacement as quickly as possible.
- B. Task the maintenance staff and an outside servicing contractor to develop a plan for timely burner replacement.
- C. Get bids from three outside servicing contractors to secure a price for replacing the burner in a timely manner.
- D. Assign 24-hour monitoring of the boiler to an engineer who could quickly restart the burner in the event it suffers an outage.

Objective 2C

Task 5

Analysis

Answer: A