

**Sample Test Name:** Engineering



(These items were developed by teachers for the Technical Skills Assessment. Below is a sample item for each program standard.)

### Question 1 of 7

Which engineer ensures that standards are met and products adhere to company product guidelines?

- A) Production
- B) Systems
- C) Manufacturing
- D) Quality

### Question 2 of 7

What is the act of repeating a process to reach a desired goal or target?

- A) Analysis
- B) Iteration
- C) Research
- D) Resolution

### Question 3 of 7

Using the formula below, what is the circular pitch (P) of a gear that has 32 teeth and a diameter of 4 inches?

$$\frac{\pi D}{N} = P$$

- A) 0.32
- B) 0.25
- C) 0.39
- D) 0.27

### Question 4 of 7

Which substance is considered a nonrenewable energy source?

- A) Uranium
- B) Sunlight
- C) Wind
- D) Wood

### Question 5 of 7

Why is a caliper used?

- A) To connect two rulers
- B) To measure an angle
- C) To make precise measurements
- D) To measure in a different unit

### Question 6 of 7

Which team strategy involves collecting ideas and feedback from all members?

- A) Critical thinking
- B) Collaboration
- C) Analytical thinking
- D) Project implementation

### Question 7 of 7

What tool can assist in managing a "just in time" manufacturing process to ensure that all products and processes happen on time?

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- A) Gantt chart
- B) Mind mapping
- C) Online timers
- D) Scatter plot

Engineering Sample Test Answer Key

<b>Question</b>	<b>Answer</b>
1.	D
2.	B
3.	C
4.	A
5.	C
6.	B
7.	A