

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

Question 1 of 20

Which tractor component transfers power from the transmission to the rear axles?

- A) Electro-hydraulic clutch
- B) Transmission
- C) Turbocharger
- D) Power takeoff

Question 2 of 20

Which safety alert indicates IMMEDIATE hazards that, if not avoided, will result in death or serious injury?

- A) Danger
- B) Warning
- C) Alert
- D) Caution

Question 3 of 20

What is the PRIMARY use of a wheel loader?

- A) Remove/Move material
- B) Dig trenches
- C) Cut slopes
- D) Crown a road

Question 4 of 20

What does a tachometer indicate?

- A) Hydraulic pressure
- B) Hours of operation
- C) Engine oil pressure
- D) Engine speed

Question 5 of 20

What is the grade of a surface that falls 20 feet for every 1,000 feet of distance?

- A) 10 percent
- B) 2 percent
- C) 1/2 percent
- D) 20 percent

Question 6 of 20

What soil stabilization is used to prevent erosion?

- A) Do not treat.
- B) Use safety cones and warning signs.
- C) Apply covers such as grass seedlings.
- D) Floor area with water.

Question 7 of 20

Which vehicle is COMMONLY used to transport material from a jobsite?

- A) Dump truck
- B) Excavator
- C) Backhoe loader
- D) Dozer

Question 8 of 20

What is the basic use of a roller or compactor?

- A) To create a v-ditch
- B) To compress and smooth asphalt
- C) To move dirt
- D) To dig a trench

Question 9 of 20

What is a safety rule for operating a scraper?

- A) Check the stabilizers.
- B) Wear proper protective equipment.
- C) Clean tracks.
- D) Change the push block.

Question 10 of 20

What type of engine does a crawler-type front-end loader usually have?

- A) Pneumatic
- B) Gasoline
- C) Diesel
- D) Hydrostatic

Question 11 of 20

What is the MAJOR purpose of a forklift?

- A) To stockpile dirt
- B) To create drainage
- C) To use as a personal lift
- D) To lift materials to higher heights

Question 12 of 20

What machine has a front mounted blade, tracks, and a huge ripper?

- A) Scraper
- B) Forklift
- C) Backhoe
- D) Dozer

Question 13 of 20

What are two types of backhoes?

- A) Crane and rough terrain
- B) Standard and extendable stick
- C) Articulated and rigid frame
- D) Push pull and pneumatic

Question 14 of 20

What attachment works in conjunction with the bucket and performs work similar to a grapple?

- A) Ripper
- B) Breaker
- C) Screen
- D) Thumb

Question 15 of 20

What equipment commonly uses a scarifier?

- A) Excavator
- B) Motor grader
- C) Roller/compactor
- D) Tandem scraper

Question 16 of 20

Who helps the motor grader operator during finish grading?

- A) Pipe crew
- B) Grade checker
- C) Foreman
- D) Safety officer

Question 17 of 20

What type of soil is dry, lacks nutrients, and is fast-draining?

- A) Silt
- B) Loam
- C) Sand
- D) Clay

Question 18 of 20

What type of cost is calculated before construction begins?

- A) Actual
- B) Estimated
- C) Fixed
- D) Variable

Question 19 of 20

What is an angle less than 90 degrees called?

- A) Acute angle
- B) Adjacent angle
- C) Right angle
- D) Straight angle

Question 20 of 20

What is a side view of a proposed project called?

- A) Elevation
- B) End view
- C) Lateral scan
- D) Profile

Heavy Equipment Operations Sample Test Answer Key

Question	Answer
1.	B
2.	A
3.	A
4.	D
5.	B
6.	C
7.	A
8.	B
9.	B
10.	C
11.	D
12.	D
13.	B
14.	D
15.	B
16.	B
17.	C
18.	B
19.	A
20.	D