



Written Assessment Evidence Guides

for

“Assistant Digger Operator”

Level-3

(Formative)

Written Assessment Guide

For

“Digger/Excavator Operator”

Level-3

Perform Pre-Digging Tasks
(Formative Assessment)

6th–10th September 2021



National Vocational & Technical
Training Commission

Title of Qualification: National Vocational Certificate Level 3, in (Digging Operation/Technology) "Digger/Excavator Operator"	CS Code:	Level: 03	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> • Perform Pre-digging tasks • Identify and implement Workplace Policies and Procedures • Apply work health and safety practices (WHS) • Communicate at workplace 	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

Guidance for Candidate	To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.
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Assessors Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Registration/Roll Number: Candidate Signature:
Written Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor: Assessor's code: Signature of the Assessor:

Title of Qualification: National Vocational Certificate Level 3, in (Digging Operation/Technology) “Digger/Excavator Operator”	CS Code:	Level: 03	Version: 01
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WRITTEN ASSESSMENT

Question	Candidate's answer
1. What is a tool box?	A. A box or container for keeping tools in
2. Define excavation?	A. Excavation is the process of removing earth to form a cavity in the ground.
3. What are different types of soils?	A. Silt, clay and sand are the three main types of soil.
4. What is the loam?	A. Loam is actually a soil mixture with a high clay content.
5. What are the types of rock?	A. There are three kinds of rock: igneous, sedimentary, and metamorphic
6. What is the main differences between igneous and sedimentary?	A. Igneous rocks are formed when magma (or molten rocks) have cooled down and solidified. Sedimentary rocks are formed by the accumulation of other eroded substances
7. PTW stands for?	B. Permit To Work
8. What are 5 Major Hazards in the Workplace?	A. Falls and Falling Objects. Chemical Exposure. Fire Hazards. Electrical Hazards. Repetitive Motion Injury
9. What is accident?	A. It is an unexpected or unplanned event which may or may not result in injury or damage or property loss or death.
10. What is risk?	A. In probability of the realization of potential for loss or damage or injury.

Question	Candidate's answer
11. What are strategies to avoid conflict?	A. Avoiding Accommodating Compromising Competing Collaborating

Written Assessment Guide
For
“Digger/Excavator Operator”

Level-3

Operate Digging Machine/Excavator
(Formative Assessment)

6th–10th September 2021



National Vocational & Technical
Training Commission

Title of Qualification: National Vocational Certificate Level 3, in (Digging Operation/Technology) "Digger/Excavator Operator"	CS Code:	Level: 03	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> • Operate Digging Machine/Excavator • Identify and implement Workplace Policies and Procedures • Apply work health and safety practices (WHS) • Communicate at workplace 	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

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Title of Qualification: National Vocational Certificate Level 3, in (Digging Operation/Technology) “Digger/Excavator Operator”	CS Code:	Level: 03	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> • Operate Digging Machine/Excavator • Identify and implement Workplace Policies and Procedures • Apply work health and safety practices (WHS) • Communicate at workplace 	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

WRITTEN ASSESSMENT

Question	Candidate's answer
1. What is excavator used for?	A. Excavators are primarily used for landscaping, digging holes and trenches, lifting and placing large objects, and demolishing structures. Other tasks can also be accomplished by using hydraulic attachments such as grapples or augers.
2. Define excavator?	A. A standard excavator has a boom, stick and bucket attached to the front/back of the machine.
3. Enlist atleast 5 types of excavators?	A. Crawler Excavator Wheeled Excavator Long-Reach Excavator Dragline Excavator Backhoe Excavator Skid Steer Excavator Power Shovel Excavator Mini Excavator, etc.
4. What is the Counter Weight?	A. Solid iron or other materials which are used as counterweight in excavators to counterbalance the weight of excavated earth.
5. Enlist atleast 5 types of excavator attachments?	A. Buckets, Hammers, Couplers, Grapples, Rakes, Thumbs, Augers, compactors, rippers, etc.
6. What is the main difference between crawler and wheel excavator?	A. Wheeled excavator moves on wheels and Crawler excavator moves on two endless tracks.

Question	Candidate's answer
7. What are 5 Major Hazards in the Workplace?	A. Falls and Falling Objects. Chemical Exposure. Fire Hazards. Electrical Hazards. Repetitive Motion Injury
8. SAE stands for?	A. Society of Automotive Engineering
9. What does ISO refer?	A. ISO refers to the sensitivity of the camera's sensor.
10. Who is banksman?	A. A worker at a building site who supervises the use of vehicles and heavy machinery.
11. What is Emergency Planning?	A. Emergency planning can defined as a control measures. It can control the accidents, safe guard people and provide information to media.
12. What Is Work Permit System?	A. Work permit system is a “written documents” for permission to undertake a job by area in charge or it is written document issued by the area in charge to the performer to undertake the specific job that are considered high risks.
13. What is conflict avoidance?	A. Conflict avoidance is a person's method of reacting to conflict.

Written Assessment Guide For “Digger/Excavator Operator”

Level-3

**Perform Digging/Excavation Operation
(Formative Assessment)**

6th–10th September 2021



**National Vocational & Technical
Training Commission**

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Competency Standard Title: <ul style="list-style-type: none"> • Perform Digging/Excavation Operation • Operate Digging Machine/Excavator • Identify and implement Workplace Policies and Procedures • Apply work health and safety practices (WHS) • Communicate at workplace 	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

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WRITTEN ASSESSMENT

Question	Candidate's answer
1. What is the use of bucket?	A. The bucket is a specialised container which is used in handling bulk materials
2. Define auger.	A. The auger is used for drilling holes for pipes or poles.
3. What is the purpose of attachments?	A. The use of attachments enables us to perform additional tasks, such as drilling, compacting, raking and ripping.
4. Which attachment is used for land clearing/site preparation?	A. Rakes: Rake attachments can transform your excavator into a versatile land clearing, site preparation or brush piling machine.
5. What are the different digging operations with excavator?	A. Digging, Moving and Dumping)
6. What are the types of construction drawings?	A. Architectural Drawings Structural Drawings Electrical Drawings Plumbing and Sanitary Drawings Finishing Drawing
7. What is SAE?	A. Society of Automotive Engineers
8. What is confined space?	A. A confined space is a space with limited entry and egress and not suitable for human inhabitants
9. What is 'section drawing'?	A. It shows a view of a structure as though it had been sliced in half or cut along another imaginary plane.

Question	Candidate's answer
10. What are the three E's of safety?	A. Evaluation, Education, and Enforcement
11. What is clarity in communication?	A. Clarity implies emphasizing on a specific message or goal at a time.
12. What is nonverbal communication?	A. Nonverbal communication is our body language and everything we communicate besides the spoken word.

Written Assessment Guide

For

“Digger/Excavator Operator”

Level-3

Perform Maintenance of Digging Equipment
(Formative Assessment)

6th–10th September 2021



National Vocational & Technical
Training Commission

Title of Qualification: National Vocational Certificate Level 3, in (Digging Operation/Technology) "Digger/Excavator Operator"	CS Code:	Level: 03	Version: 01
Competency Standard Title: <ul style="list-style-type: none"> • Perform Maintenance of digging equipment • Operate Digging Machine/Excavator • Identify and implement Workplace Policies and Procedures • Apply work health and safety practices (WHS) • Communicate at workplace 	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

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WRITTEN ASSESSMENT

Question	Candidate's answer
13. Enlist the pre-checks for maintenance of machinery?	A. Check out Battery connections, Engine coolant level, Fuel Level, Engine Oil Level, and Hydraulic oil level, belt tension of track chain and Air pressure for wheeled vehicle.
14. What does PPE's stands for?	A. Personal Protective Equipment.
15. Define pressure gauge?	A. Pressure gauge is an instrument for measuring the condition of a fluid (liquid or gas) that is specified by the force which fluid would exert.
16. Enlist different types of gauges?	A. Types of gauges: <ul style="list-style-type: none"> • Plain Type Gauge. • Snap Gauges or Gap Gauges. • Ring Type Gauge. • Limit Type Gauge. • Pin Type Gauge. • Caliper Type Gauge. • Feeler Type Gauge. • Screw Pitch Gauges.
17. Define the use of thermostat kit?	A. Thermostat is used to detect temperature changes for the purpose of maintaining the temperature of an enclosed area.
18. Define the use of circuit breakers?	A. A circuit breaker is an electrical switch designed to protect an electrical circuit from damage caused by over current/overload or short circuit.
19. Define electrical resistance?	A. The opposition offered by a substance to the passage of free electrons passing through it.

Question	Candidate's answer
20. Define insulation resistance?	A. The insulation resistance is the resistance in ohms of wires, cables and electrical equipment. It is important to guard against electric shocks and avoid equipment damage from accidental discharges of electricity.
21. Define safety?	A. The condition of being protected from or unlikely to cause danger, risk, or injury.
22. What does ABC stands for in first aid?	A. Airway, Breathing and CPR
23. What are the 7 communication skills (C's)?	A. The seven C's are: clarity, correctness, conciseness, courtesy, concreteness, consideration and completeness.
24. What are the three ways of communication?	A. Communication happens in one of three ways: verbal, nonverbal and visual.



Written Assessment Evidence Guides

for

“Assistant Digger Operator”

Level-3

(Summative)

Written Assessment Guide

For

“Digger/Excavator Operator”

Level-3

(Summative Assessment)

6th–10th September 2021



**National Vocational & Technical
Training Commission**

Title of Qualification: National Vocational Certificate Level 3, in (Digging Operation Supervisor) "Digger/Excavator Operator"	CS Code:	Level: 03	Version: 01
Competency Standard Title: A. Identify and implement Workplace Policies and Procedures B. Apply work health and safety practices (WHS) C. Communicate at workplace D. Perform Pre-digging tasks E. Operate Digging Machine/Excavator F. Perform Digging/Excavation Operation G. Perform Maintenance of digging equipment H. Perform Advance Technical Drawing	Assessment Date (DD/MM/YY): Assessment Time: 30 min		

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WRITTEN ASSESSMENT

Question	Candidate's answer
1. What is the Counter Weight?	A. Solid iron or other materials are used as counterweight in excavators to counterbalance the weight of excavated earth.
2. What are the attachments with excavator?	A. Augers, compactors, hammers, rippers, grapples,
3. What is the main differences between crawler and wheel excavator?	A. Unlike other large excavators that run on wheels, crawlers run on large two endless tracks.
4. What does ISO refer?	A. ISO refers to the sensitivity of the camera's sensor.
5. Who is banksman?	A. A worker at a building site who supervises the use of vehicles and heavy machinery.
6. What is the use of bucket?	A. The bucket is a specialized container which is used in handling bulk materials
7. Define auger.	A. The auger is used for drilling holes for pipes or poles.

Question	Candidate's answer
8. What is the purpose of attachments?	A. The use of attachments enables us to perform additional tasks, such as drilling, compacting, raking and ripping.
9. Which attachment is used for land clearing, site preparation?	A. Rakes: Rake attachments can transform your excavator into a versatile land clearing, site preparation or brush piling machine.
10. What are the different digging operations with excavator?	A. (digging, moving, dumping)
11. Define excavation?	A. Excavation is the process of removing earth to form a cavity in the ground..
12. What are different types of soils?	A. Silt, clay and sand are the three main types of soil.
13. What is the loam?	A. Loam is actually a soil mixture with a high clay content, and humus is organic matter present in soil but neither are a main type of soil
14. What are the types of rock?	A. There are three kinds of rock: igneous, sedimentary, and metamorphic
15. What is the main differences between igneous and sedimentary?	A. The main differences between is formation and sources
16. What is the Coefficient of friction?	A. Coefficient of friction is defined as the ratio of the force required to move tow sliding surfaces over each other, and the force holding them together
17. Which is the purpose of oil filter in vehicle?	A. Vehicle oil filter removes waste, too. It captures harmful debris, dirt, and metal fragments in your motor oil to keep your car's engine running smoothly
18. What does an (EGR) stands for?	A. Exhaust gas recirculation
19. What is oiling and greasing?	A. Grease is a thickened oil, not a thicker oil. The thickener within a grease acts as a sponge, holding the base oil and the additives together.
20. How you identify screwdriver?	A. A screwdriver is identified by the type of screw it fits.
21. What is the first step if the drill bit binds in the material being drilled?	A. Release the trigger switch.
22. Define the use of thermostat kit?	A. Thermostat is used to detect temperature changes for the purpose of maintaining the temperature of an enclosed area essentially constant.

Question	Candidate's answer
23. Define the use of circuit breakers?	A. A circuit breaker is an electrical switch designed to protect an electrical circuit from damage caused by over current/overload or short circuit.
24. Define resistance?	A. The opposition offered by a substance to the passage through it of an electric current is called resistance.
25. Define insulation resistance?	A. The insulation resistance is the resistance in ohms of wires, cables and electrical equipment. It is important to guard against electric shocks and avoid equipment damage from accidental discharges.
26. Define safety?	A. The condition of being protected from or unlikely to cause danger, risk, or injury.
27. What does ABC stands for in first aid?	A. Airway, Breathing and CPR
28. What the five stages of team development?	A. Forming, Storming, Norming, Performing, And Adjourning
29. What is the importance of work ethics?	A. Increases the overall morale and enhances the performance of an organization
30. What are strategies to avoid conflict?	A. Avoiding Accommodating. ... Compromising. ... Competing. ... Collaborating