CIVIL CONSTRUCTION

Learner Workbook

(Formative assessment)

STUDENT COPY





RIIMP0321F wheeled front end loader

RIIMP0322F tracked front end loader



RIIMP0318F skid steer loader



RIIMPO319E backhoe



RIIMP0320F excavator



RIIHAN311F integrated tool carrier

This resource was developed by:





Learner Name:			
Student Number:	Date:	,	,
Student Number:	_ Date: _	/	/

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Knowledge Assessment



Question 1

What is the first thing that is done to build a new road?



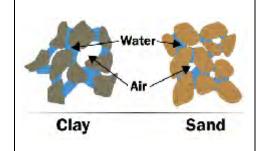
Question 2

What is the last thing you do in constructing a road?

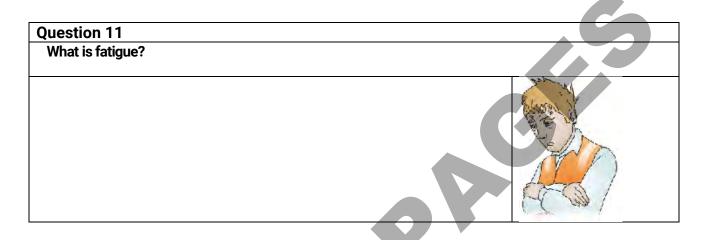


Question 3

What is the difference in viscosity between dry loose soil and wet muddy soil?



Question 10 What is a hazard? DANGER OVERHEAD POWER LINES





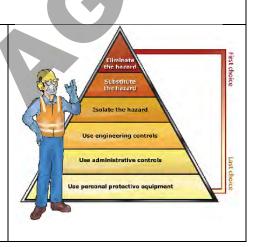
uestion 13 What is the purpose of a Job Safety Analysis	(JSA) or Safe Work Me	ethod Statem	ent (SWM	S)?
	<u>×</u>	Job Safety Ana	lysis Workshe	et
	Company name:		Permit to work requirement:	JSA No
	Contractor:		Approved by:	
	Activity:			a contra de la contra del la contra del la contra del la contra de la contra del la contra de la contra de la contra del
	Activity List the tasks needed to do the jr in the order they are done.	Mezards Next to each task list the hazards that could cause injury when the task is don	Risk control measures List the control measures needed to remove or minimise the risk of Injury from the hazard you have identified.	Who is responsible? Write the name of the person respons (supervisor or above) for putting the control measures in place.

What does an environmental (EMP) tell you?



Question 15

What is the Hierarchy of Hazard Control?



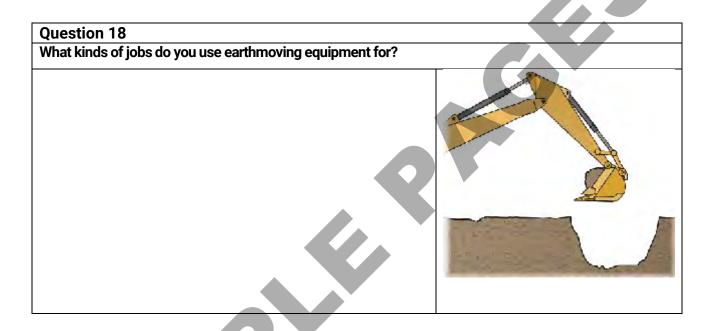
Question 16

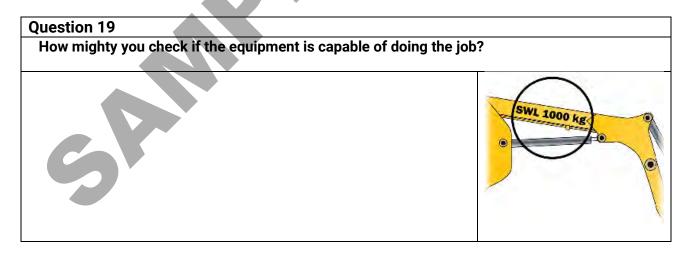
What personal protective equipment (PPE) might you need when doing earthmoving work?

Answer may include but is not limited to:

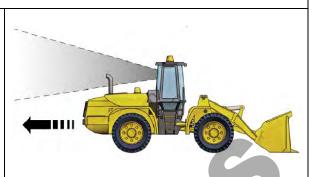


Question 17 What does a traffic management plan (TMP) tell you?





What do you do before reversing earthmoving machine from a stationary position?



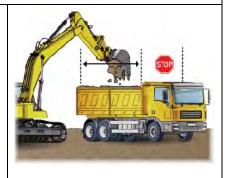
Question 30

Why is it dangerous to slew a load over the cabin of a truck?

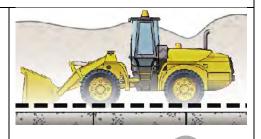


Question 31

What safety precautions should the operator take when dumping a load into a truck?

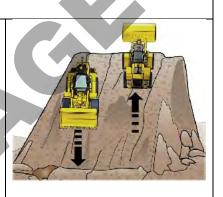


When travelling with a load, what kind of ground is the safest to travel on?



Question 33

Which way should you travel when driving on sloping ground?

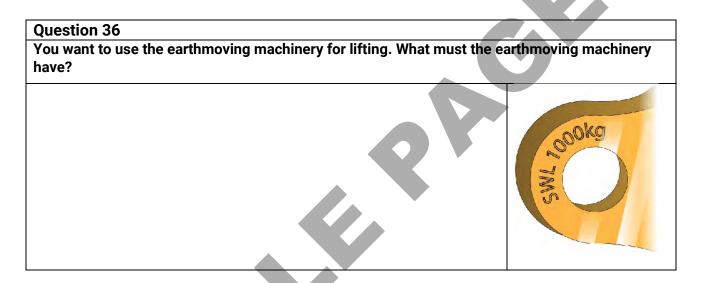


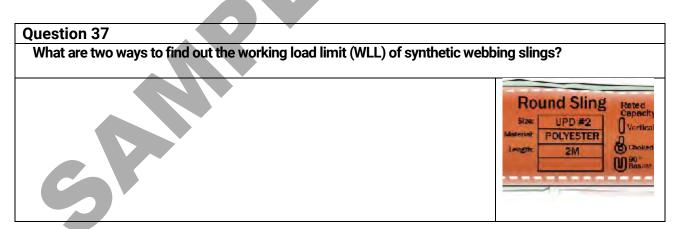
Question 34

When travelling down a steep slope, which gear do you use?



Question 35 How can you find out the weight of a load?





How do you prepare a machine for travel on a public road?



Question 56

Before you drive on a public road, what checks do you make on the machine?



Question 57

A loader is to be transported. How is the preparation done by the person responsible?

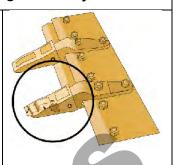


Question 58

You've finished using earthmoving machinery. What post-operational checks do you do?



What are some common parts that wear or get damaged on earthmoving machinery?



Question 60

Why should you remove the keys from earthmoving machinery when leaving it parked?



Question 61

What do you have to clean when you have finished using earthmoving machinery?

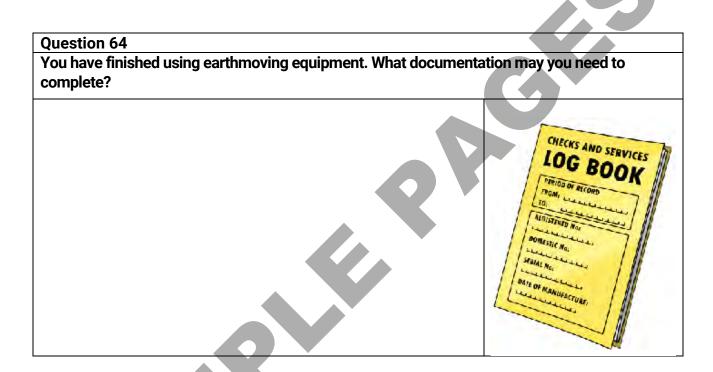


Question 62

What are some items on earthmoving machinery that can be recycled?



Question 63 After you've finished the job, what should you do?



Score for knowledge assessment

	Knowledge Assessment			
	Correct answers:	/ 63		
	Percentage:			
	Result (circle):	Satisfactory	Not satisfactory	
Asse	ssor feedback:			

If you have any questions about your results, speak to your trainer/supervisor.

Practical tasks



The skills and knowledge required to operate earthmoving machinery to load, distribute and place materials, work must be performed **on at least two occasions**. The two occasions could include the following:

Occasion 1 – Workbook (formative assessment)

Occasion 2 – Summative assessment instrument

Attachments:

Two different attachments must be used.

Practical Assessment 1 - Pre-Start



Ob	servation performed when performing Practical Task 1 from	Yes	No	N/A	Job 1	Job 2
wo	ork order provided (Job 1, Job 2)					
Ca	ndidate:	1				
Loc	cated and apply relevant documentation, policies and procedures.	*				
	Locates operator's manual for earthmoving machinery and finds requirements for pre-start and start-up checks.					
	Locates site policies and procedures for personal protective equipment requirements when operating earthmoving machinery.					
	Candidate displays preparedness for emergency situations by outlining the steps to be taken in the case of a fire or accident.					
	Interrupt work order or requirements before performing work task.					
Sel	ected and wear personal protective equipment.					
	PPE selected must be as per site policies and relevant to the task. As a minimum MUST include appropriate footwear, Hi-visibility workwear and hard hat.					
	PPE must be checked for serviceability and correctly fitted.					
Co	nducted pre-start inspection of earthmoving machinery.					
	Pre-start check is carried out as per operators manual and workplace policies and procedures. Where possible a completed pre-start checklist should be provided as supporting evidence.					
	During inspection the candidate must identify and/or verbalise any common faults they are looking for.					
	Faults and/or damage found during inspection must be managed as per workplace policies and procedures. This should include, tagging out faulty equipment, isolating faulty equipment, reporting to the appropriate person and recording in a logbook. If no faults or damage are found the candidate must verbalise the procedure for the worksite to the assessor.					

Carried out vehicle refuelling requirements and procedures where applicable.			
☐ Candidate must refuel the earthmoving machinery when necessary. The candidate must refer to workplace policies and procedures for refuelling.			
☐ The correct PPE for refuelling must be selected and worn during the refuelling process.			

The applicants' performance in Practical Assessment 1 – Pre-Start activity was deemed to be:				
☐ Sat	tisfactory	☐ Not yet satisfactory		
Applicant signature:		Date:		
Trainer/assessor signature:		Date:		

Practical Assessment Summary – Co	ompetency	/ Sign Off
Files to be submitted. Written Assessment		
☐ 1 x Knowledge assessment		
Practical Work		
\square 2 x activity's performed in work place or simulated environme	nt	
Documents that need to be submitted.		
☐ 2 x Copies of work order		
☐ 1 x Trainer's Assessment Work book filled in of candidate's ass	sessment.	
Written / Practical Assessment Summary	Satisfactory	Not Satisfactory
Knowledge assessment		
1. Pre-Start	D	
2. Drive and operate earthmoving machinery		
3. Complete operations to specification		
4. Attachments		
5. Load, unload and relocate earthmoving machinery		
6. Housekeeping		
Competency: Not Yet Competent □ Date	Competent Date	
Feedback to be given to candidate or to workplace traine	er.	

Trainer / Assessor	
signature:	The learner has been assessed as Not Yet competent /
Date:	competent in the elements and performance criteria, critical aspects
	for assessment, required skills and knowledge for this unit and the
	evidence presented is:
	☐ Authentic ☐ Valid ☐ Reliable ☐ Current ☐ Sufficient