GRADER

Learner Workbook

(Formative assessment)

STUDENT COPY

RIIMPO324F – Conduct civil construction grader operations



Learner Name:		
Student Number:	Date:	

This resource was developed by:







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Knowledge Assessment - Introduction



The assessor must be satisfied the candidate has successfully demonstrated each element and performance criteria contained in the Unit of Competency.

Knowledge Assessment Instructions



- 1. This assessment should be completed in writing (pen not pencil). However, where necessary it may be undertaken verbally. If verbal assessment is undertaken the candidates' responses must be clearly recorded by the assessor. The assessor must clearly note on the assessment that it was undertaken verbally.
- 2. Candidates should be allowed 10 minutes reading time before commencing the assessment and a further 180 minutes to complete the assessment.
- 3. The assessment should be completed in a quiet area free from distraction.
- 4. The assessment is to be completed without the assistance of learning resources. Students may ask the assessor for assistance to clarify questions they do not understand.
- 5. A pass mark of 90% (47/52) must be achieved for a satisfactory result. The assessor must provide feedback to the candidate to clarify any answers deemed to be incorrect.
- 6. Reasonable adjustment to the assessment is to be made by the assessor where deemed necessary.



Knowledge Assessment



Question 1-A	(PC1.1)			
Give three (3) examples of compliance documentation you should read before using a grader. Compliance documentation tells you the rules and regulations you need to follow.				
	TRAFIC MANAGEMENT Code of Protes			

Question 1-B					(PC1.2)
What are work instructions and what do they explain?					
					EASY GUIDES
	0 006 0	1	WOR	K ORDER /	Work Plan
	0 007 0	Super Mo	blle	0400 911 911	
		ORDER N		WO-019	
		ORDER NO CUSTOME ORDER RE BY	R ID	WO-019 C123 1/1/2022	

Question 1-C

(PC1.3)

List three (3) common hazards you might need to plan for before starting work?

Identify by circling the hazards and labelling them in the image. Or list below.



Question 1-D		(PC1.3)		
What does the environmental management plan explain? Give at least four (4) examples.				
	ENVI MA	RONMENTAL NAGEMENT PLAN		
Question 1-E		(PC1.4)		
List three (3) examples of personal protective equipment (PPE) you operating your machine.	u may need to w	ear while		
Question 1-F		(PC1.4)		
What footwear must you wear when doing earthmoving work?				
		a a a a a a a a a a a a a a a a a a a		

Score for knowledge assessment

Knowledge Assessment		
Correct answers:		_ / 52
Percentage:		
Result (circle):	Satisfactory	Not satisfactory
Assessor feedback:		

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

Practical Assessment



The assessor will assign or give you a work order or task description that outlines the task that you need to perform.

If one is not provided see Example 1 / Work order 1 and Example 2 / Work order 2.

Note: Performing the actual practical task may be filmed and noted of where the video file is stored and assigned to which candidate, along with a copy of the work order must be submitted to assessor.



Practical assessment instructions



You are to demonstrate the ability to:

Operate a grader,

By cutting, leveling, filling, trimming,

- spreading materials,
- Compacting and

Safely, effectively and efficiently following workplace procedures to carry out work activity on at least **two occasions**.

The assessor is to submit 2 work orders to candidate, to follow, which outlines work to be performed for at least **2 different material types** such as the following:

- mixing materials,
- stripping/spreading materials,
- · cutting/digging,
- back filling,
- · compacting,

and working with the following material types top soil, dirt, clay, rock or crushed rock, in situ material (lime) / sand, gravel, sand.

Inc	luding:
	assisting with loading and unloading Grader from float/trailer
	ing with selecting, fitting, testing, using and removing at least two attachments, the attachment st be certified and approved in line with workplace procedures, such as the following;
	Front-mounted scarifier (mixer)
	Rear-mounted ripper
	Curved cutting edge blade
	Serrated edge blade
	Flat edge blade
	Roller

RIIMPO324F - Conduct civil construction grader operations v4 Learner Workbook Student Copy An example of a work order / job (requirements) might be the following;

Example 1 / Work Order 1. Assist with the moving of grader vehicle off and on float / trailer. Dig up an area for a new road to be laid and use the rear mounted ripper to cut up soil. Use the curved cutting edge or flat edge blade to remove some of the top soil.

Next to the dug up soil, use the curved cutting edge blade to make a small trench for a dozer to dig a bigger hole for later use to lay pipes.

Example 2 / Work Order 2. Use a roller to flatten the Natural Ground level compacted subgrad of an area where a new road is to be laid.

Use the curved cutting edge or flat edge blade to lay in situ material (lime) / sand over new section of road to be laid and then compact it using a roller, to create a subbase course layer.

Use the curved cutting edge or flat edge blade to lay crushed rock over a subbase course layer and use a roller to compact the area for a paver to lay the Wearing course layer. Finally, assist with the moving of grader vehicle off and on float / trailer.



Note: Performing the actual practical task may be filmed and noted of where the video file is stored.

Resources Required:

Equipment					
	Grader				
	Float / trailer				
Att	achments				
	Front Mounted scarifier or rear-mounted ripper.				
	Curved cutting edge blade.				
	Roller				
	Flat edge blade				
Ma	terials				
	In situ material (lime) / sand				
	Crushed rock				
	Top soil				
	Rock				

Practical assessment should be performed in a normal working environment where possible. However, under some circumstances may occur in a simulated work environment (refer to assessment conditions for further information).

The Assessor must:

- Clearly explain to the candidate what is expected of them
- Check that the candidate has been provided with the necessary tools and equipment
- Complete checklists as the candidate goes through the tasks
- Only question a candidate during a practical task if it is safe to do so
- Stop the assessment immediately if the candidate is doing something dangerous

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- Stop the assessment immediately if the machine or objects are likely to be damaged
- Inform the candidate of the result of the assessment
- Provide the candidate with a **work order or job plan** that outline the task to demonstrate, if one is not provided then use the sample contained within this document or one of your own.

If an assessor needs to stop the assessment because of danger or possible damage, the candidate must be marked as not yet competent. If the assessment is stopped, further training would need to take place before a re-assessment can be undertaken.

Tasks in the assessment do not have to be assessed in isolation, they may be done as one continual task, a simple example of this might be to:

Do a **pre-start** requirement check, when complete **drive** the grader to area of **operation** to **cut**, **level**, **fill**, **spread and compact** to pre-determined **specifications** and **use a number of attachments on different material types**. Along with **housekeeping** requirements and **prepare the grader for relocation** and **assist in loading the grader** onto a float or trailer.

If the scenario above was completed twice it should meet the requirements as long as two different material types are used.

Note: Performing the actual practical task may be filmed and noted of where the video file is stored.

Summary of practical assessment task.



What to do for practical task demonstration.

\square Practical Assessment 1 – Pre-Start – Demonstrate the skills and knowledge required to do a prestart check before operating a grader, the actual practical task may be filmed and noted of where the video file is stored.
☐ Practical Assessment 2 — Drive and operate grader by identifying an hazards and risks, start and operate grader.
☐ Practical Assessment 3 – Complete operations to specification demonstrate the operational use of a grader according to specifications / (work order) using at least two different material types and two different occasions.
☐ Practical Assessment 4 — Fit and remove and use attachments of grader according to job description.
☐ Practical Assessment 5 — Load, unload and relocate grader.
☐ Practical Assessment 6 – Housekeeping.

Knowledge and Practical Assessment Summary – Competency Sign Off

Files to be submitted.						
Knowledge Assessment ☐ 1 x Knowledge assessment						
Practical Work □ 2 x activities performed in work place or simulated environment (Additional evidence: Video footage of candidate performing work order) Name of work order and/or Video File 1: Name of work order and/or Video File 2:						
 2 x Environmental m 2 x Safe work method 2 x Job plans with no 		order der ntation – 1 each fo				
Knowledge and Pract	ical Assessment Summary	Satisfactory	Not Satisfactory			
0. Knowledge Assessm	nent					
1. Pre-Start						
2. Drive and operate Grader						
3. Complete operations to specification						
4. Attachments						
5. Load, unload and relocate Grader						
6. Housekeeping						
Competency:	Not Yet Competent ☐ Date	Competent Date				
Feedback to be give	n to candidate or to Workplace Super	visor				
Trainer / Assessor signature: Date:	The learner has been assessed as competent in the elements and perform assessment, required skills and knevidence presented is:	ormance criteria, nowledge for this	critical aspects unit and the			