













HEAVY MACHINE **OPERATOR**



ASSESSMENT PACKAGE

National Vocational Certificate Level 2

Version 1 - November, 2019





Published by

National Vocational and Technical Training Commission Government of Pakistan

Headquarter

Plot 38, Kirthar Road, Sector H-9/4, Islamabad, Pakistan www.navttc.org

Responsible

Director General Skills Standard and Curricula, National Vocational and Technical Training Commission

National Deputy Head, TVET Sector Support Programme, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Layout & design

SAP Communications

Photo Credits TVET Sector Support Programme

URL links

Responsibility for the content of external websites linked in this publication always lies with their respective publishers. TVET Sector Support Programme expressly dissociates itself from such content.

This document has been produced with the technical assistance of the TVET Sector Support Programme, which is funded by the European Union, the Federal Republic of Germany and the Royal Norwegian Embassy and has been commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ). The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in close collaboration with the National Vocational and Technical Training Commission (NAVTTC) as well as provincial Technical Education and Vocational Training Authorities (TEVTAs), Punjab Vocational Training Council (PVTC), Qualification Awarding Bodies (QABs)s and private sector organizations.

Document Version November, 2019 Islamabad, Pakistan

HEAVY MACHINE OPERATOR



ASSESSMENT PACKAGE

National Vocational Certificate Level 2

Version 1 - November, 2019

Title of Qualification: National Vocational Certificate level 2, in Heavy Machine Operator	CS Code:	Level: 2	Version: 1 (2019)
Competency Standard Title: 073200589 Maintain Machines (with Engine Off)	Assessment [Date (DD/MM/YY	() :

Candidate Details	Name:						
	Registration/Roll Number:						
	To meet this standard, you are required to complete the following within 5 hours (for practical demonstration & assessment):						
	1. Assessment Task 1: Inspect and service lubrication system.						
	2. Assessment Task 2: Inspect and service electrical system.						
	3. Assessment Task 3: Inspect and service hydraulic system.						
	4. Assessment Task 4: Inspect and service cooling system.						
	5. Assessment Task 5: Inspect and service air intake system.						
	6. Assessment Task 6: Inspect and service fuel system.						
	7. Assessment Task 7: Inspect and service suspension system.						
	8. Assessment Task 8: Inspect and service Drive train.						
Guidance for	9. Assessment Task 9: Inspect and service braking system.						
Candidate	10. Assessment Task 10: Inspect and service load bearing structure.						
	11. Assessment Task 11: Inspect and service operator station/cab.						
	12. Assessment Task 12: Inspect safety equipment.						
	13. Assessment Task 13: Inspect and service attachments.						
	14. Assessment Task 14: Inspect and service supporting pneumatic (air-filled) system.						
	And complete: 1. Knowledge assessment test (Written or Oral). 2. Portfolios at the time of assessment (if any).						

Minimum Evidence	During a practical assessment, under observation by an assessor, you will complete:						
Required	Assessment Task 1: Inspect and service lubrication system.						
	Performance Criteria 1: Locate components to be inspected for lubrication.						
	Performance Criteria 2: Identify low oil levels and dirty filler caps.						
	Performance Criteria 3: Select appropriate tools for lubrication system.						
	Performance Criteria 4: Adjust oil levels as per required standards.						
	Performance Criteria 5: Identify and report leakages if any.						
	Assessment Task 2: Inspect and service electrical system.						
	Performance Criteria 1: Locate electrical components to be inspected.						
	Performance Criteria 2: Identify defects and hazardous conditions through visual/physical inspection.						
	Performance Criteria 3: Select appropriate tools for rectification of minor defects in electrical components.						
	Performance Criteria 4: Check Electrolyte level of batteries.						
	Performance Criteria 5: Replace batteries.						
	Assessment Task 3: Inspect and service hydraulic system.						
	Performance Criteria 1: Locate hydraulic components to be inspected.						
	Performance Criteria 2: Identify defects and leakages hazardous conditions through visual/physical inspection.						
	Performance Criteria 3: Report leakages and noise of the hydraulic system.						
	Performance Criteria 4: Check hydraulic oil levels as per standard gauge.						
	Performance Criteria 5: Replace hoses/pipes.						

Asse	essment Task 4: Inspect and service cooling system.
	Performance Criteria 1: Identify unobstructed air/Coolant flow of radiator
	Performance Criteria 2: Locate cooling system components to be inspected.
	Performance Criteria 3: Adjust coolant level.
	Performance Criteria 4: Replace defective belts and hoses.
Asse	essment Task 5: Inspect and service air intake system.
	Performance Criteria 1: Locate air intake components to be inspected.
	Performance Criteria 2: Clean air filters with compressed air.
	Performance Criteria 3: Replace intake hoses and clamps.
Asse	essment Task 6: Inspect and service fuel system.
	Performance Criteria 1: Locate fuel system components to be inspected.
	Performance Criteria 2: Select tools for service of fuel system.
	Performance Criteria 3: Identify defects and hazardous conditions through visual inspection.
	Performance Criteria 4: Clean fuel strainer and water separator.
	Performance Criteria 5: Identify and report fuel leakage.
Ass	essment Task 7: Inspect and service suspension system.
	Performance Criteria 1: Locate suspension system components.
	Performance Criteria 2: Select suspension system tools for service.
	Performance Criteria 3: Identify greasing points.
	Performance Criteria 4: Identify damaged bearings and pins.

Assessment Task 8: Inspect and service Drive train.

Performance Criteria 1: Locate Drive train components.

Performance Criteria 2: Select tools for drive train service.

Performance Criteria 3: Identify defects through visual inspection.

Performance Criteria 4: Check leaks and damage of drive train components.

Performance Criteria 5: Identify defective undercarriage components.

Assessment Task 9: Inspect and service braking system.

Performance Criteria 1: Locate braking system components.

Performance Criteria 2: Identify defects through visual/physical inspection.

Performance Criteria 3: Top-up fluid reservoir.

Performance Criteria 4: Identify defective components of braking system.

Assessment Task 10: Inspect and service load bearing structure.

Performance Criteria 1: Locate load bearing components.

Performance Criteria 2: Select tools for load bearing structures

Performance Criteria 3: Identify defects through visual inspection

Performance Criteria 4: Identify greasing points and pins for load bearing components.

Assessment Task 11: Inspect and service operator station/cab.

Performance Criteria 1: Locate controls inside operator station/ cab

Performance Criteria 2: Identify defective components inside operator station.

Performance Criteria 3: Check knobs of all lights and indicators.

	Assessment Task 12: Inspect safety equipment.
	Performance Criteria 1: Identify safety equipment.
	Performance Criteria 2: Identify expired fire extinguisher.
	Assessment Task 13: Inspect and service attachments.
	Performance Criteria 1: Identify defects through visual inspection.
I	Performance Criteria 2: Identify tools for fixing of attachments.
	Performance Criteria 3: Identify greasing points of attachments.
	Performance Criteria 4: Locate worn out teeth.
	Assessment Task 14: Inspect and service supporting pneumatic (air-filled
	Performance Criteria 1: Locate pneumatic components.
Ì	Performance Criteria 2: Select tools for pneumatic system.
	Performance Criteria 3: Identify defects through visual inspection.

Portfolios required at the time of assessment (if any) for						
Performance criteria for the evaluation of portfolio:						
Submit log book or activity record (practical journal, project, pictures etc.) completed during the training.						

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Candidate's Signature:	0
Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT

073200589 Maintain Machines (with Engine Off)

Assessment Summary (to be filled by the assessor)							
Activity	Method			Result			
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration							
Knowledge Assessment							
Other Requirement							

Each Assessment Task (with performance criteria)					
			of assessment task 1 I service lubrication system		
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks
1	Performance Criteria 1: Located components to be inspected for lubrication.				
2	Performance Criteria 2: Identified low oil levels and dirty filler caps.				
3	Performance Criteria 3: Selected appropriate tools for lubrication system.				
4	Performance Criteria 4: Adjusted oil levels as per required standards.				
5	Performance Criteria 5: Identified and reported leakages if any.				
Compe	etent 🗆	Not Yet Compe	tent 🛛		

Formative Assessment Evidence Guide for Heavy Machine Operator Level-2

Assess	sment Task 2	Description of assessment task 2 Inspect and service electrical system				
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks	
1	Performance Criteria 1: Located electrical components to be inspected.					
2	 Performance Criteria 2: Identified defects and hazardous conditions through visual/physical inspection. 					
3	3 Performance Criteria 3: Selected appropriate tools for rectification of minor defects in electrical components.					
4	Performance Criteria 4: Checked electrolyte level of batteries.					
5	5 Performance Criteria 5: Replaced batteries.					
Competent Not Yet Comp		Not Yet Compe	tent 🛛			

Assess	sment Task 3	Description of assessment task 3 Inspect and service hydraulic system			
During the practical assessment, candidate demonstr following:			Yes	No	Remarks
1	Performance Criteria 1: Located Hydraulic components to be inspected.				
2	Performance Criteria 2: Identified defects and hazardous conditions through visual/physical inspection.				
3	Performance Criteria 3: Reported leakages and noise of the hydraulic system. 3				
4	Performance Criteria 4: Checked hydraulic oil levels as per standard gauge.				
5	Performance Criteria 5: Replaced hoses/pipes.				
Compe	etent 🗆	Not Yet Compe	tent 🛛		•

Asses	sment Task 4	Description of assessment task 4 Inspect and service cooling system			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	Performance Criteria 1: Identified unobstructed air/Coolant flow of radiator.				
2	Performance Criteria 2: Located cooling system components to be inspected.				
3	Performance Criteria 3: Adjusted coolant level.				
4	Performance Criteria 4: Replaced defective belts and hoses.				
Compe	Competent D Not Yet Compe		tent 🛛		

Assess	Assessment Task 5 Description of assessment task 5 Inspect and service air intake system				
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	Performance Criteria 1: Located air intake components to be inspected.				
2	Performance Criteria 2: Cleaned air filters with compressed air.				
3	Performance Criteria 3: Replaced intake hoses and clamps.				
Compe	etent	Not Yet Compet			

		Description of assessment task6 Inspect and service fuel system			
	During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1	Performance Criteria 1: Located fuel system components to be inspected.				
2	Performance Criteria 2: Selected tools for service of fuel system.				
3	Performance Criteria 3: Identified defended and the second statement of the second sec				
4	Performance Criteria 4: Cleaned fuel strainer and water separator.				
5	Performance Criteria 5: Identified and report fuel leakage.				
Comp	Competent D Not Yet Compe		tent 🛛	·	,

Assessment Task. 7		Description of assessment task7 Inspect and service suspension system				
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks		
1	Performance criteria 1: Located suspension system components.					
2	Performance criteria 2: Selected suspension system tools for service.					
3	Performance criteria 3: Identified greasing points.					
4	Performance criteria 4: Identified damaged bearings and pins.					
Competent D Not Yet Compe		tent 🛛				

		•	Description of assessment task8 Inspect and service Drive Train		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	Performance criteria 1: Located Drive train components.				
2	Performance criteria 2: Selected tools for drive train service.				
3	Performance criteria 3: Identified defects through visual inspection.				
4	Performance criteria 4: Checked leaks and damage of Drive train components.				
5	Performance criteria 5: Identified defective undercarriage components.				
Competent D Not Yet Compe		tent 🛛	•		

		Description of assessment task 9 Inspect and service braking system				
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks		
1	Performance criteria 1: Located braking system components.					
2	Performance criteria 2: Identified defects through visual/physical inspection.					
3	Performance criteria 3: Top-up fluid reservoir.					
4	Performance criteria 4: Identified defective components of braking system.					
Competent D Not Yet Compe		tent 🛛				

		Description of assessment task 10 Inspect and service load bearing structure				
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks		
1	Performance criteria 1: Located load bearing components.					
2	Performance criteria 2: Selected tools for load bearing structures.					
3	Performance criteria 3: Identified defects through visual inspection.					
4	Performance criteria 4: Identified greasing points and pins for load bearing components.					
Competent D Not Yet Compe		tent 🛛				

Assessment Task 11		Description of assessment task 11 Inspect and service operator station/Cab				
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks		
1	1 Performance criteria 1: Located controls inside operator station/ cab.					
2	Performance criteria 2: Identified defective components inside operator station.					
3	3 Performance criteria 3: Checked knobs of all lights and indicators.					
Competent Not Yet Compe		tent 🛛				

Assessment Task 12		Description of assessment task 12 Inspect safety equipment			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	Performance criteria 1: Identified safety equipment.				
2	Performance criteria 2: Identified expired fire extinguisher.				
Competent D Not Yet Comp		tent 🛛			

Assessment Task 13		Description of assessment task 13 Inspect and service attachments			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	Performance criteria 1: Identified defects through visual inspection.				
2	Performance criteria 2: Identified tools for fixing of attachments.				
3	Performance criteria 3: Identified greasing points of attachments.				
4	4 Performance criteria 4: Located worn out teeth.				
Competent D Not Yet Compe		tent 🛛			

Assessment Task 14		Description of assessment task 14 Inspect and service supporting pneumatic (Air-filled) system				
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks		
1	Performance criteria 1: Located pneumatic components.					
2	Performance criteria 2: Selected tools system.	for pneumatic				
3	Performance criteria 3: Identified defects through visual inspection.					
4	Performance criteria 4: Identified choked pneumatic components.					
Competent D Not Yet Compe		tent 🛛				

Portfolio(if any)			Description of portfolio			
Current Sufficient Authentic		Authentic	I Valid □ Reliable □			
Portfolio	o meet the following performa	nce standards:		Yes	No	Remarks
1	Performance criteria for the evaluation of portfolio: Submitted log book or activity record (practical journal, project, pictures etc.) completed during the training.					
Competent D Not Yet Com			t Yet Compet	tent 🛛		

Title of Qualification:National Vocational Certificate level 2 inHeavy Machine Operator	CS Code:	Level: 2	Version: 1 (2019)	
Competency Standard Title: 073200589 Maintain Machines (with Engine Off)	Assessment Date (DD/MM/YY): //			

Guidance for	To complete your assessment for this Competency Standard, you need to answer
Candidate	the questions on the following pages successfully.

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's Signature:						
Written Assessment Outcome	Name of the Assessor:	Assessor's code:					
	Signature of the Assessor:						

Feedback to the candidate on assessment.

Г

	-
 	-
	-
Candidate Signature	

Formative Assessment Evidence Guide for Heavy Machine Operator Level-2

Title of Qualification: National Vocational Certificate level 2 in	CS Code:	Level:	Version: 1 (2019)
Heavy Machine Operator		2	1 (2013)
Competency Standard Title:	Assessment Date (DD/MM/YY):		M/YY):
073200589 Maintain Machines (with Engine Off)			

WRITTEN ASSESSMENT

Question	Candidate's answer
 Describe Functions of Mechanical Systems in Heavy Machines? 	
2. Describe Inspection & Maintenance of Heavy Machines, and their Associated Attachments?	
 Describe Inspection & Maintenance Procedure of Mechanical Systems in Heavy Machines? 	

Title of Qualification: National Vocational Certificate level 2, In Heavy Machine Operator	CS Code:	Level: 2	Version: 1 (2019)
Competency Standard Title: 073200590 Maintain Machines (with Engine Running)	Assessment Da	ate (DD/MM/YY)	

Candidate Details	Name:
	Registration/Roll Number:
	To meet this standard, you are required to complete the following within 5 hours (for practical demonstration & assessment):
	15. Assessment Task 1: Start engine monitor warning systems.
	16. Assessment Task 2: Warm up engine.
	17. Assessment Task 3: Cycle equipment functions.
	18. Assessment Task 4: Comply with scheduled maintenance requirements.
	19. Assessment Task 5: Maintain logbook.
Guidance for Candidate	 And complete: 3. Knowledge assessment test (Written or Oral). 4. Portfolios at the time of assessment (if any).

	During a practical assessment, under observation by an assessor, you will complete:						
	Assessment Task 1: Start engine monitor warning systems.						
	Performance Criteria 1: Identify leaks and engine warning lights on the panel.						
	Performance Criteria 2: Replace fuses and tighten loose fittings.						
	Assessment Task 2: Warm up engine.						
	Performance Criteria 1: Monitor warning lights on panel.						
	Performance Criteria 2: Warm up engine according to manufacturer's instructions.						
	Assessment Task 3: Cycle equipment functions.						
	Performance Criteria 1: Activate brakes, steering, lights, wipers and hydraulic functions.						
Minimum Evidence Required	Performance Criteria 2: Identify problems, if any.						
	Assessment Task 4: Comply with scheduled maintenance requirements.						
	Performance Criteria 1: Identify safety requirements.						
	Performance Criteria 2: Identify indicators/warning signals.						
	Performance Criteria 3: Maintain record on log book.						
	Performance Criteria 4: Identify daily maintenance requirements.						
	Assessment Task 5: Maintain logbook.						
	Performance Criteria 1: Record fuel consumption.						
	Performance Criteria 2: Record oil change.						
	Performance Criteria 3: Record time period/mileage of vehicle for schedule maintenance.						

Portfolios required at the time of assessment (if any) for						
Performance criteria for the evaluation of portfolio:						
Submit log book or activity record (practical journal, project, pictures etc.) completed during the training.						

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Candidate's Signature:	C C
Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT

073200590 Maintain Machines (with Engine Running)

Assessment Summary (to be filled by the assessor)								
Activity		Method				Result		
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration								
Knowledge Assessment								
Other Requirement								

Each Assessment Task (with performance criteria)					
			assessment task 1 monitor warning systems		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	1 Performance Criteria 1: Identified leaks and engine warning lights on the panel				
2 Performance Criteria 2: Replaced fuses and tighten loose fittings					
Competent Not Yet Compe		tent 🛛	•		

Assess	sment Task 2	Description of Warm up er		ment ta	sk 2
During followii	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance Criteria 1: Monitored warning lights on the panel.				
2	2 Performance Criteria 2: Warmed up engine according to manufacturer's instructions.				
Compe	etent 🛛	Not Yet Compe	etent 🛛		

Assess	ment Task 3	Description of assessment task 3 Cycle Equipment Functions			
During followir	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance Criteria 1: Activated brakes, steering, lights, wipers and hydraulic functions.				
2	Performance Criteria 2: Identified problems, if any.				
Competent 🗆		Not Yet Compe	tent 🛛		

Asses	sment Task 4	Description of assessment task 4 Comply with Scheduled Maintenance Requirements			
During followi	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance Criteria 1: Identified safety requirements.				
2	Performance Criteria 2: Identified indicators/warning signals.				
3	Performance Criteria 3: Maintained record on log book.				
4	Performance Criteria 4: Identified daily maintenance requirements.				
Competent Not Yet Comp		Not Yet Compe	etent 🛛		

Assessment Task 5		Description of assessment task 5 Maintain Logbook			
During the practical assessment, candidate demonstrated th following:		monstrated the	Yes	No	Remarks
1	Performance Criteria 1: Recorded fuel consumption.				
2	Performance Criteria 2: Recorded oil change.				
3	3 Performance Criteria 3: Recorded time period/mileage of vehicle for schedule maintenance.				
Competent Not Yet Co			tent 🛛	•	

Portfolic	o(if any)		Description of po	ortfolio		
Current	□ Sufficient □	Authentic□	Valid 🗖		Reliable	
Portfolic	o meet the following perform	ance standards	:	Yes	No	Remarks
1	Performance criteria for Submitted log book or ac project, pictures etc.) comp	ctivity record (p	oractical journal,			
Competent		Not Yet Compete	ent 🗖			

Title of Qualification: National Vocational Certificate level 2 in Heavy Machine Operator	CS Code:	Level: 2	Version: 1 (2019)
Competency Standard Title: 073200590 Maintain Machines (with Engine Running)	Assessment D	Date (DD/MM/YY):

Guidance for Candidate	To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.
------------------------------	---

Assessors Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name:	
	Candidate's Signature:	
Written Assessment Outcome	Name of the Assessor:	Assessor's code:
	Signature of the Assessor:	

Feedback to the candidate on assessment.

Candidate Signature...... Assessor Signature

Title of Qualification:National Vocational Certificate level 2 inHeavy Machine Operator	CS Code:	Level: 2	Version: 1 (2019)
Competency Standard Title: 073200590 Maintain Machines (with Engine Running)	Assessmer	nt Date (DD/I	ММ/ҮҮ):

WRITTEN ASSESSMENT

Question		Candidate's answer
4.	Describe warning systems of machines?	
5.	Describe types of machine warning?	
6.	Describe procedure of engine warming up?	
7.	Describe functions of cycle equipments?	

Question	Candidate's answer
8. Describe techniques of scheduled maintenance?	
9. Describe procedure to maintain logbook?	

Title of Qualification:National Vocational Certificate level 2,In Heavy Machine Operator	CS Code:	Level:2	Version: 1 (2019)
Competency Standard Title: 073200591 Park Machines	Assessment Da	ate (DD/MM/YY)	:

Candidate Details	Name:
	Registration/Roll Number:
	To meet this standard, you are required to complete the following within 5 hours (for practical demonstration & assessment):
	20. Assessment Task 1: Park equipment in appropriate location.
	21. Assessment Task 2: Shut down and secure equipment.
	22. Assessment Task 3: Perform housekeeping tasks.
Guidance for Candidate	And complete: 5. Knowledge assessment test (Written or Oral). 6. Portfolios at the time of assessment (if any).

	During a practical assessment, under observation by an assessor, you will complete: Assessment Task 1: Park equipment in appropriate location. Performance Criteria 1: Identify suitable parking location. Performance Criteria 2: Park equipment according to company policy and procedure. Performance Criteria 3: Place the attachments to the ground level after parking.
Minimum Evidence Required	Assessment Task 2: Shut down and secure equipment. Performance Criteria 1: Switch off machine according to the manufacturer's specifications. Performance Criteria 2: Secure equipment against movement and damage.
	 Assessment Task 3: Perform housekeeping tasks. Performance Criteria 1: Identify important housekeeping parts (blades, buckets wind shields, side rails, steps and instrument panel etc.). Performance Criteria 2: Identify the covering components such as glass/mirror.

Portfolios required at the time of assessment (if any) for
Performance criteria for the evaluation of portfolio:
Submit log book or activity record (practical journal, project, pictures etc.) completed during the training.

Candidate Details	Name: Candidate's Signature:	u u u u u u u u u u u u u u u u u u u
Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT

Assessment Summary (to be filled by the assessor)							
Activity	Method			Result			
Nature of Activity	Written	Written Oral Observation Portfolio Role Play			Role Play	Competent	Not Yet Competent
Practical Skill Demonstration							
Knowledge Assessment							
Other Requirement							

Each Assessment Task (with performance criteria)					
Assess	ment Task 1	Description of assessment task 1			
		Park equipm	ent in	appro	priate location
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks	
1	Performance Criteria 1: Identified suitable parking location.				
2	2 Performance Criteria 2: Parked equipment according to company policy and procedure.				
3	3 Performance Criteria 3: Placed the attachments to the ground level after parking.				
Compe	tent 🗆	Not Yet Compe	tent 🛛		

		Description of assessment task 2 Shut down and secure equipment			
During followi	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance Criteria 1: Switched off machine according to the manufacturer's specifications.				
2	2 Performance Criteria 2: Secured equipment against movement and damage.				
Competent 🗆		Not Yet Compe	tent 🛛	•	

		Description of assessment task 3 Perform housekeeping tasks			
During the practical assessment, candidate demonstr following:			Yes	No	Remarks
1	Performance Criteria 1: Identified important housekeeping parts (blades, buckets wind shields, side rails, steps and instrument panel etc.).				
2	Performance Criteria 2: Identified the covering components such as glass/mirror.				
Competent D		Not Yet Compe	tent 🛛	•	

Portfolic	o (if any)	Description of po	ortfolio		
Current	□ Sufficient □ Authentic□	Valid 🛛		Reliabl	е 🗆
Portfolio meet the following performance standards:				No	Remarks
1	Performance criteria for the evaluation of portfolio: Submitted log book or activity record (practical journal, project, pictures etc.) completed during the training.				
Competent 🗆		Not Yet Compet	ent 🛛		

Title of Qualification: National Vocational Certificate level 2 in Heavy Machine Operator	CS Code:	Level: 2	Version: 1 (2019)
Competency Standard Title: 073200591 Park Machines	Assessment E	Date (DD/MM/YY):

Guidance for	To complete your assessment for this Competency Standard, you need to answer the
Candidate	questions on the following pages successfully.

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's Signature:	
Written Assessment Outcome	Name of Assessor:	Assessor's code
	Signature of the Assessor:	

Feedback to the candidate on assessment.

Candidate Signature...... Assessor Signature

Title of Qualification:National Vocational Certificate level 2 inHeavy Machine Operator	CS Code:	Level: 2	Version: 1 (2019)
Competency Standard Title:	Assessment Date (DD/MM/YY):		
073200591 Park Machines			

WRITTEN ASSESSMENT

Question	Candidate's answer
10. Describe manufacturers' specifications?	
11. Describe company policies and procedures?	
12. Describe importance of cleaning tracks, wheels, rollers, and attachments?	

Question	Candidate's answer
13. Describe knowledge of suitable and safe parking locations, such as dry and clean surface, level, away from fuel storage or water courses, secure area?	

Title of Qualification: National Vocational Certificate level 2, In Heavy Machine Operator	CS Code: 0732CON04	Level: 2	Version: 1 (2019)	
Competency Standard Title: Summative Assessment HMO NVQF Level-2	Assessment Date (DD/MM/YY):			

Candidate Details	Name:
	To meet this standard, you are required to complete the following within 5 hours (for practical demonstration & assessment):
	1. Assessment Task 1: In a given situation to maintain and park machines.
Guidance for Candidate	And complete: 7. Knowledge assessment test (Written or Oral). 8. Portfolios at the time of assessment (if any).

	During a practical assessment, under observation by an assessor, you are required to Maintain and Park Machines demonstrating the following criteria:
	Identify Machines and their sizes.
	Inspect and service lubrication system
	Performance Criteria 1: Locate lubrication components to be inspected.
	Performance Criteria 2: Identify low oil levels.
	Inspect and service hydraulic system
	Performance Criteria 3: Locate hydraulic components to be inspected.
	Performance Criteria 4: Check hydraulic oil levels.
	Inspect and service cooling system
	Performance Criteria 5: Follow safety measures.
	Performance Criteria 6: Check airflow through radiator.
	Performance Criteria 7: Adjust coolant level.
	Inspect and service braking system
/ .	Performance Criteria 8: Locate components to be inspected.
/Minimum Evidence	Performance Criteria 9: Top-up fluid reservoir.
Required	Warm up engine
	Performance Criteria 10: Monitor instrument panel.
	Performance Criteria 11: Warm up engine according to manufacturer's instructions.
	Performance Criteria 12: Activate all functions, such as brakes, steering, lights, wipers and hydraulic functions.
	Park equipment in appropriate location
	Performance Criteria 13: Identify appropriate parking location.
	Performance Criteria 14: Park machine according to company policy and procedure.
	Performance Criteria 15: Lower the attachments to the ground level.
	Performance Criteria 16: Switch off machine according to the manufacturer's specifications.
	Portfolios required at the time of assessment (if any) for Performance criteria 1 for the evaluation of portfolio: Submit log book or
	activity record (practical journal, project, pictures etc.) completed during the training.

Continued on following page

Self-Assessment Checklist

I can.....

Candidate Name						
Registration No.						
Qualification	National Vocational Certificate Level-2 in Heavy Mac	National Vocational Certificate Level-2 in Heavy Machine Operator				
Purpose of Assessment	Summative Assessment HMO NVQF Level 2	Summative Assessment HMO NVQF Level 2				
Assessment Tas	 Maintain and Park Machines. Knowledge Assessment. 					
Performance Cri	eria	Yes	No			
1. Locate lubri	cation components to be inspected.					
2. Identify low	oil levels.					
3. Locate hydr	aulic components to be inspected.					
4. Check hydr	4. Check hydraulic oil levels.					
5. Follow safe	y measures.					
6. Check airflo	6. Check airflow through radiator.					
7. Adjust coola	nt level.					
8. Locate brak	ing components to be inspected.					
9. Top-up fluid	reservoir.					
10. Monitor inst	rument panel.					
11. Warm up er	gine according to manufacturer's instructions.					
12. Activate all and hydraul	unctions, such as brakes, steering, lights, wipers ic functions.					
13. Identify app	ropriate parking location.					
14. Park machi	ne according to company policy and procedure.					
15. Lower the a	5. Lower the attachments to the ground level.					
16. Switch off m specification	achine according to the manufacturer's					

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Candidate's Signature:	0
Assessment Outcome	COMPETENT	NOT YET COMPETENT

Assessment Summary (to be filled by the assessor)								
Activity		Method				Result		
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration								
Knowledge Assessment								
Other Requirement								

Each Assessment Task (with performance criteria)					
Assess	Description of a Maintain and P			sk 1	
During followir	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks
1	Performance Criteria 1: Located lubr components to be inspected.	ication			
2	Performance Criteria 2: Identified low	v oil levels.			
3	Performance Criteria 3: Located hydrogeneous components to be inspected.	raulic			
4	Performance Criteria 4: Checked hydelevels.	draulic oil			
5	Performance Criteria 5: Followed saf measures.	ety			
6	Performance Criteria 6: Checked airflow through radiator.				
7	Performance Criteria 7: Adjusted coolant level.				
8	Performance Criteria 8: Located braking components to be inspected.				
9	Performance Criteria 9: Top-up fluid reservoir.				
10	Performance Criteria 10: Monitored in panel.	nstrument			
11	Performance Criteria 11: Warmed up according to manufacturer's instruc				
12	Performance Criteria 12: Activated all functions, such as brakes, steering, lights, wipers and hydraulic functions.				
13	Performance Criteria 13: Identified appropriate parking location.				
14	4 Performance Criteria 14: Parked machine according to company policy and procedure.				
15	15 Performance Criteria 15: Lowered the attachments to the ground level.				
16	16 Performance Criteria 16: Switched off machine according to the manufacturer's specifications.				
Competent Not Yet Competent					

Knowledge Assessment

Qualification	National Vocational Certificate Level-2 in Heavy Machine Operator			
Purpose of Assessment	Summative Assessment			
Candidate Details	Name: Registration Number:Signature:			
Assessment Outcome	COMPETENT NOT YET COMPETENT Name of the Assessor			

Portfolio (if any)			Description of portfolio				
Current Sufficient Authentic			□ Valid□ Reliable □			eliable 🛛	
Portfolio meet the following performance standards:					Yes	No	Remarks
Performance criteria 1 for the evaluation of portfolio: Submitted log book or activity record (practical journal, project, pictures etc.) completed during the training.							
Competent D Not Yet Com			Not Yet Compe	tent 🛛			

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	What is Lubricant?		
2.	What is Coolant?	_	

3.		[[]
0.	Differentiate between Brake oil and Hydraulic oil?		
4.	Why warm up engine is necessary?		
5.			
5.	What is radiator?		
6.	Define fuel pump?		
	·		
7.	Define air intake system?		

National Vocational and Technical Training Commission (NAVTTC)

🖉 Plot 38, Kirthar Road, Sector H-9/4, Islamabad, Pakistan

- 🗞 +92 <u>51 9044 322</u>
- 🖗 +92 51 <u>9044 322</u>
- 🖄 info@navttc.org
- 🛞 www.navttc.orc