Curriculum

For

Heavy Vehicle Operator

(Six Months Duration)

Code: VJ 94S001

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Introduction Template

Overall objective of course

- (i) The learner will be able to work as a driver of commercial vehicles.
- (ii) Fulfill the job requirements for an employer.
- (iii) Facilitate new entrants to learn and enter the labor market.
- (iv) Improve the workmanship of existing workers.

Competencies gained after completion of course

- To apply safety precautions.
- Select use and handle automotive hand tools; power tools workshop tools, safely and efficiently.
- Identify and service the vehicle up to some extent.
- Can safely drive the commercial vehicles.
- Can maintain all records of goods, passengers and vehicle.

Job opportunities available immediately and in the future

- Pass out may be employed in following sectors.
- Heavy Duty Workshops
- Private fleets, logistic and public transports.
- Government departments
- Self-Business.

Trainee entry level

- 5th to 8th grade

Minimum qualification of trainer

- Diploma of Associate Engineer in (Auto & diesel / mechanical / Power tech.)

with five years' experienceof managing/ handling heavy vehicle maintenance/ driving department.

Medium of Instruction i.e. language of instruction

- English (preferably) / **Urdu** (general) / Local (Provincial) Language in Pakistan.

Sequence of the modules

- As per program.

Timeframe of assessment (recommendation)

- Preferably after each module, However Overall Assessment is made After completion of Course

Overview about the program

Module Title and Aim	Learning Units	Theory ¹ Days/hours	Workplac e ² Days/hou rs	Timeframe of modules
Module 1 Health and safety rules Aim: Adopt personal,tools, instruments,road,vehicl e safety and first aid application.	1.1 Apply personal safety1.2 Apply safety for tools & instruments1.3 Apply vehicle safety rules1.4 Apply road safety rules1.5 Apply first aid	8	32	One week 40
Module 2 Operate tools and Instruments Aim: Can be understand & physically operate the hand tools and power tools/ instruments.	2.1 Operate spanner kits 2.2 Operate torque wrenches 2.3 Operate screw kits 2.4 Operate hydraulic jack 2.5 Operate pneumatic guns 2.6 Operate air filling pipe	8	32	One week 40
Module 3 Operate Heavy vehicles Aim: Know driving of truck,bus& trailer, their maintenance.	3.1 Drive Truck3.2 Drive Bus3.3 Drive Trailer3.4 Tow disabled vehicle	96	384	Twelve weeks 480
Module 4 Communicate Aim: Know communication oral & written with concern.	4.1 communicate with supervisor 4.2 communicate with peers 4.3 communicate with public 4.4 communicate with loaders	8	32	One week 40
Module 5 Maintain Records Aim: Can maintain record of log book, goods, customers and vehicle history.	5.1 maintain vehicle log book 5.2 maintain record of transported goods 5.3 maintain customer record 5.4 maintain vehicle history record	8	32	One week 40

¹ Learning hours in training provider premises ² Training workshop, laboratory and on-the-job workplace

Module 6 Secure Cargo Aim: Know safe handling of cargo.	6.1 secure cargo for transport 6.2 secure cargo for weather change (rain etc.)	8	32	One week 40
Module 7 Maintain Heavy vehicle Aim: Understand service, cleaning & parking of vehicle & store tools/instruments	7.1 service heavy vehicle 7.2 place vehicle in garage 7.3 store tools/instruments 7.4 clean vehicle	24	96	Three weeks 120

Curriculum Contents - (Teaching/Learning Guide)

Module 1 Health and Safety rules

Objective of the Module: Adopt personal, tools, instruments, road, vehicle safety and first aid application.

Duration: 40 hours Theory: 08hours Practice: 32 hours

Learning Unit	Learning	Learning	Duration	Materials	Learning Place
	Outcomes	Elements		Required	
1.1 Apply	Trainee should	Know: personal	05	PPE	Classroom/workshop
personal safety	be able:	safety rules			
	To adopt safety				
	measure during	Apply: personal			
	whole job	safety rules			
1.2 Apply	To adopt safety	Know:	10	-handbook	Classroom/workshop
safety for tools &	measure during	safety rules for		For tools &	
instruments	handling of tools	tools &		instruments	
	and instruments	instruments			
		Apply:			
		safety rules for			
		tools &			
		instruments			
1.3 Apply	To adopt safety	Know:	10	-handbook/	Classroom/workshop
vehicle safety	measure for	safety rules		manual	
rules	vehicles	before, during &			
		after driving			
		vehicle			
		Apply:			
		safety rules			
		before, during &			
		after driving			
		vehicle			
1.4 Apply	To adopt safety	Know:	10	-wall charts	Classroom/workshop/
road safety rules	measure when	road safety rules		-handbook/	field
	driving vehicle	& laws		manual	
	on road			-CD/video	
		Apply:			
		road safety rules			
		& laws			
1.5 Apply	Able to handle	Know:	05	First aid box	Classroom/workshop
first aid	human injury or	first aid		(contains valid	
	shocked	procedures		medicines &	
				apparatus)	
		Apply:			
		first aid			
		procedures			

Module 2 Operate tools and Instruments

Objective of the Module: Can be understand & physically operate the hand tools and power tools/ instruments.

Duration: 40 hours Theory: 08 hours Practice: 32 hours

Learning Unit	Learning	Learning Elements	Duration	Materials	Learning Place
	Outcomes			Required	
2.1 Operate spanner kit	Identify and use the spanner set efficiently and safely	Describe: -open end -box -combination -socket set	05	Complete tool box	classroom/workshop
		Able to use: -open end -box -combination -socket set			
2.2 Operate torque wrenches	Identify and use the torque wrench according to specification.	Define: -torque -ldentify toque wrench Able to use: -torque wrenches	05	Different torque wrenches	Classroom/workshop
2.3 Operate screw kits	Identify and use the screw driver set efficiently and safely	Identify: -flat -Philips -off-set -impact set Able to use: -flat -Philips -off-set -impact set	05	Different screw driver set	workshop
2.4 Operate hydraulic jack	Identify and use the hydraulic jacks efficiently and safely	Know types & uses of jacks, parts and operation of Hydraulic jack Able to use: -Hydraulic jack efficiently & safely	10	Different hydraulic jacks	Classroom/workshop
2.5 Operate pneumatic guns	Identify and use the pneumatic guns efficiently and safely	Know types & uses of guns, parts and operation of pneumatic guns	10	Different pneumatic guns.	Classroom/workshop

		Able to use: -Pneumatic gun efficiently & safely		sources.	
2.6 Operate air filling pipe	Identify sources of compressed air & coupling	Describe: -Coupling& uncoupling -Types of pipe - safety	05	-flexible pipe -quick couplers	Classroom/workshop
		Able to: -couple & uncouple air lines			

Module 3 Operate Heavy vehicles

Objective of the Module: Know driving of truck, bus & trailer, their maintenance.

Duration: 480 hours Theory: 96 hours Practice: 384 hours

Learning Unit	Learning	Learning Elements	Duration	Materials	Learning Place
	Outcomes			Required	
3.1 Drive Truck	Trainee must	Know	140	Vehicle unit	Classroom/workshop/
	be able to:	-Parts and		Manufacturer's	field
	1.Identify	functions of		manual	
	different parts	different parts of		Learning module	
	of truck	the		2 Video material	
		truck.Inspecting		HTV regulation	
	2.Drive truck	Procedures.		manual	
		-Locations and		HTV handbook	
		functions of		② Communication	
		control parts.		device	
		-Nature of		Record book	
		functions and		Standard	
		characteristics of		mechanical/	
		truck parts		hydraulic tools	
		-Operation of the			
		truck.			
		-Driving			
		techniques.			
		-Traffic			
		regulations.			
	3.Follow	-Procedure in			
	standard	loading and			
	procedures in	unloading truck.			
	driving truck	-To Avoid road			
		hazards.			
	4.Manage	-Road signs.			
	different types				
	of driving	-the Reporting			
	hazards	procedure of			
		accidents.			
		-to Monitor and			
		reporting vehicle			
	5. Monitor	malfunctions.			
	irregular				
	performance	Ability to Perform			
	of the vehicle	maintenance			
		checkups.			
	6.Perform				
	minor vehicle	-to Use standard			
	maintenance	tools.			

		-to Perform in or			
		vehicle			
		maintenance			
3.2 Drive Bus	Trainee must	Know	140	② Vehicle unit	Classroom/workshop/
3.2 Drive bus	be able to:	-Parts and	140	Manufacturer's	field
	be able to.	functions of		manual	neid
	1.Identify	different parts of		Learning module	
	different parts	the bus.		2 Video material	
	of bus	-Inspecting		HTV regulation	
		Procedures.		manual/handbook	
		-Locations and		Communication	
	2.Drive bus	functions of		device	
		control parts.		Record book	
		-Nature of		Standard	
		functions and		mechanical/	
		characteristics of		hydraulic tools	
		bus parts.			
		-the Operation of			
		the bus.			
		-the Driving			
		techniques.			
		-the Traffic			
		regulations.			
		-the Procedure in			
		loading and			
		unloading			
	2.5.11.	passengers.			
	3.Follow	-to Avoid road			
	standard	hazards.			
	procedures in	-road signs.			
	driving bus	-the Reporting			
		procedure of accidents.			
	4.Manage	-to Monitor and			
	different types	reporting vehicle			
	of driving	malfunctions.			
	hazards				
		Ability to Perform			
		maintenance			
		checkups.			
	5. Monitor				
	irregular	-to Use standard			
	performance	tools			
	of the vehicle	-to Perform minor			
		vehicle			
		maintenance.			
	6.Perform				
	minor vehicle				

	maintenance				
3.3 Drive Trailer	1.Driving trailer safely	Know Parts and functions of	140	Vehicle unitManufacturer'smanual	Classroom/workshop/ field
	2.Identify the parts of Air brakes & their function 3.Know coupling & uncoupling of trailer & inspection	different parts of the TrailerInspecting ProceduresLocations and functions of control partsNature of functions and characteristics of Trailer partsthe Operation of the Trailerthe Driving techniquesthe Traffic regulationsthe Procedure in loading and unloadingto Avoid road hazards. road signsthe Reporting procedure of accidentsto Monitor and		 Learning module Video material HTV regulation manual/handbook Communication device Record book Standard mechanical tools 	
		reporting vehicle malfunctions. Ability to Perform maintenance checkups -to Use standard toolsto Perform minor vehicle maintenance. -to park, couple and uncouple trailer.			

3.4 Tow	1 Prepare and	Know the	60	2 gloves	Classroom/workshop/
disabled	respond to call	methods and		safety headwear	field
vehicle		procedure to tow		and footwear	
		disable vehicle.		safety glasses	
	2 Implement	Personal,		2 twoway radios	
	road safety	Vehicle & road		② protective	
	procedures to	Safety rules.		clothing	
	commence			nigh visibility	
	hook-up	Able to:		clothing	
		-keep equipment		eye wash kit	
		ready for use		② emergency	
		-choose right PPE.		shutdown controls	
	3 Hook up			② evacuation	
	disabled	-park vehicle with		controls	
	vehicle	safe road side.		spill equipment	
		-take appropriate		- chain & wire	
		action.		rope	
		-decide correct		- wheel stopper	
		method for			
		towing.			
		-ensure safety			
	4 Unhook	standards.			
	disabled	-adopt defensive.			
	vehicle	-driving			
		techniques.			
		-adopt correct &			
		safe procedure to			
		unhook.			
		-place disable			
		vehicle according			
		to rules &			
		customer			
		requirements.			

Module 4: Communicate

Objective of the Module: Know communication oral & written with concern.

Duration: 40 hours Theory: 08 hours Practice: 32 hours

Learning Unit	Learning	Learning Elements	Durati	Materials Required	Learning Place
	Outcomes		on		
4.1	Handle and	Knowledge of	10		Classroom/
communicate	communicate	different			workshop/
with supervisor	with supervisor	approaches and			field
		strategies and			
		communication			

		skills.			
		Ability to be effective and co-operative team members.			
4.2 communicate with peers	Communicate effectively and give instructions properly.	Knowledge of giving clear, concise instruction formulation of instruction, nonverbal communication. Ability to communicate effectively and handle problems.	10	Role play seniors for problem solving activity	Classroom/ workshop/ field
4.3 communicate with public	Communicate Effectively With Customers	Knowledge of important and principles of good client service and good communication skills.	10	List of effective speaking/Listening skills and strategies	Classroom/ Workshop/ field
		Ability to communicate with clients with well manners			
4.4 communicate with loaders	Communicate effectively and give instructions properly.	Knowledge of giving clear, concise instruction formulation of instruction ,nonverbal communication	10	Role play seniors for problem solving activity	Classroom/ workshop/ field
		Ability to communicate effectively and handle problems.			

Module 5: Maintain Record

Objective of the Module: Can maintain record of log book, goods, customers and vehicle history.

Duration: 40 hours Theory: 08 hours Practice: 32 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
5.1 maintain vehicle log book	1. Vehicle records are maintained/ updated in accordance with workplace procedures. 2. Pertinent documents are filed and stored safely.	know the methods, types,procedure of writing log book. Able to: -calculate vehicle running expenses & repair cost -prepare & plan maintenance chart -different entries to be carried out -handle documents & files in safe custody	10	-templates -log book -files -cupboard -rack	Classroom/workshop
5.2 maintain record of transported goods	1. Goods records are maintained/ updated in accordance with workplace procedures. 2. Pertinent documents are filed and stored safely.	know the methods, types, procedure of writing record book. Able to: -Maintain goods record -Record and file documents. keep documents & files in safe custody	10	-files -cupboard -rack	Classroom/workshop
5.3 maintain customer record	1. Vehicle records are maintained/ updated in accordance with workplace procedures. 2. Pertinent documents are filed and stored safely.	know the methods, types, procedure of writing record book. Able to record: -customer relationship -financial forecasting -annual complementary gifts -customer's	10	-files -cupboard -rack	Classroom/workshop

		satisfaction comments			
5.4 maintain vehicle history record	1. Vehicle's history records are maintained/ updated in accordance with workplace procedures. 2. Pertinent documents are filed and stored safely.	know the methods, types, procedure of writing record book. Able to: -Maintain vehicle record for repair & maintenance -Record and file documents in safe custody.	10	-files -cupboard -rack	Classroom/workshop

Module 6: Secure Cargo

Objective of the Module: Know safe handling of cargo.

Duration: 40 hours Theory: 8 hours Practice: 32 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
6.1 secure cargo for transport	To know securing cargo, considering all aspects	know: procedure to transport securely cargo. Vehicle weight & legal weight limits Able to: -Inspect cargo - weight and balance -perform blocking and bracing	20		Classroom/workshop
6.2 secure cargo from weather change (rain etc.)	To know securing cargo, considering weather	know the methods adopted for securing cargo in different weather conditions Able to: -cover cargo as per requirement - tie down cargo -adopt safety rules	20	-rope -waterproof cover	Classroom/workshop

Module 7: Maintain Heavy Vehicle

Objective of the Module: Understand service, cleaning & parking of vehicle & store tools/instruments

Duration: 120 hours Theory: 24 hours Practice: 96 hours

Learning Unit	Learning Outcomes	Learning Elements	Duratio n	Materials Required	Learning Place
7.1 service heavy vehicle	Minor routine checks are performed based on vehicle manufacturer's manual. BLOWAF Battery Light Oil Water Air Fuel	knowparts to be inspect regularlyParts of vehicle -systems of vehicle Able to: -care and use of check- up tools / equipment. Adopt(BLOWAF) procedure in checking the vehicle -adopt health, safety rules and regulations -write service and maintenance reports	80	 Vehicle unit Tire wrench Mechanical pliers Jack (hydraulic) Pressure gauge/ lead pipe Engine oil Brake fluid Distilled water Fuse Vehicle light bulbs Eye goggles Gloves Apron Vehicle service manual 	Classroom/ workshop
7.2 placing vehicle in garage	1. Hose is disconnected from the tractor head. 2. Landing gears are lowered and locked. 3. Chokes are engaged on the trailer wheels (left and right).	Know parking procedure, and rules for different places Able to: - park vehicle properly - inspect vehicle -operate the landing gear -set the safety lock of the vehicle	10	Vehicle unitVehiclemanufacturer'smanualLearningmodules	Classroom/ workshop
7.3 store tools/instruments	1. Tools and instruments are arranged and stored in their respective shelves/location. 2. Corresponding labels are posted and visible. 3. Tools are secured and logged in the	Know the types of tools and equipmentrelevant technical information -principles of quality management Able to: -store & record tools/instruments as per nature of use.	20	 Tool cabinet Appropriate tools and instruments Tool room Fire extinguishers Tool kit Log/record book Labeling materials 	Classroom/ workshop

	record book.	-adopt safety Proceduresperform labeling procedures.			
7.4 clean vehicle	Vehicle is cleaned as per prescribed procedures using appropriate cleaning supplies, tools/ equipment and according to occupational health and safety.	know the procedure, tools, equipment, materials & solvents use for cleaning Able to: -adopt procedure in cleaning the vehiclehandle cleaning tools and materialsdispose wastescare and use of cleaning tools and equipmenthousekeeping.	10	 Vehicle unit Air compressor Vacuum pump Pressure washer Brush Hose Cleaning materials -Soap -Car shampoo -Clean water Learning modules 	workshop

Assessment Template

Module 1 (Health and Safety Rules)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
1.1 Apply personal safety	1	4	state: personal safety rules Apply: personal safety rules	SelfpacedlearningDiscussionDemonstrationIndividualpractice	
1.2 Apply safety for tools & instruments	2	8	state: safety rules for tools & instruments Apply: safety rules for tools & instruments	Do	
1.3 Apply vehicle safety rules	2	8	state: safety rules before, during & after driving vehicle Apply: safety rules before, during & after driving vehicle	Do	
1.4 Apply road safety rules	2	8	state: road safety rules & laws Apply: road safety rules & laws	Do	
1.5 Apply first aid	1	4	state: first aid procedures Apply: first aid procedures	Do	

Module 2 (Operate Tools and Instruments)

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
2.1 Operate spanner kit	1	4	Describe: -open end -box -combination -socket set Able to use: -open end -box -combination -socket set	 Selfpaced learning Discussion Demonstration Individual practice Direct observation Shot answer/ Question 	
2.2 Operate torque wrenches	1	4	Define: -torque -ldentify toque wrench Able to use: -torque wrenches	Do	
2.3 Operate screw kits	1	4	Identify: -flat -Philips -off-set -impact set Able to use: -flat -Philips -off-set -impact set	Do	
2.4 Operate hydraulic jack	2	8	describetypes & uses of jacks, parts and operation of Hydraulic jack Able to use: -Hydraulic jack efficiently & safely	Do	
2.5 Operate pneumatic guns	2	8	Describe types & uses of guns, parts and operation of pneumatic guns	Do	

			Able to use:		
			-Pneumatic gun		
			efficiently & safely		
2.6 Operate	1	4	Describe:	Do	
air filling			-Coupling&		
pipe			uncoupling		
			-Types of pipe		
			- safety		
			Able to:		
			-couple & uncouple		
			air lines		

Module 3(Operate Heavy Vehicles)

Learning Units	Theory	Workplace	Recommended	Recommended	Scheduled Dates
	Days/hours	Days/hours	formative	Methodology	
			assessment		
3.1 Drive	28	112	state	Selfpaced	
Truck			-Parts and	learning	
			functions of	② Discussion	
			different parts of	② Demonstratio	
			the truck.	Individual	
			Inspecting	practice	
			Procedures.		
			-Locations and		
			functions of control		
			parts.		
			-Nature of		
			functions and		
			characteristics of		
			truck parts		
			-Operation of the		
			truck.		
			-Driving		
			techniques.		
			-Traffic regulations.		
			-Procedure in		
			loading and		
			unloading truck.		
			-To Avoid road		
			hazards.		
			-Road signs.		
			-the Reporting		
			procedure of		
			accidents.		
			-to Monitor and		
			reporting vehicle		
			malfunctions.		
			Ability to Perform		
			maintenance		
			checkups.		
			-to Use standard		
			tools.		
			-to Perform minor		
			vehicle		
			maintenance		

3.2 Drive Bus	28	112	state -Parts and functions of different parts of the busInspecting ProceduresLocations and functions of control partsNature of functions and characteristics of bus partsthe Operation of the busthe Driving techniquesthe Traffic regulationsthe Procedure in loading and unloading passengersto Avoid road hazardsroad signsthe Reporting procedure of accidentsto Monitor and reporting vehicle	 Selfpaced learning Discussion Demonstration Individual practice 	
			-the Traffic regulationsthe Procedure in loading and unloading passengersto Avoid road hazardsroad signsthe Reporting procedure of accidentsto Monitor and		
			Ability to Perform maintenance checkups. -to Use standard tools -to Perform minor vehicle maintenance.		
3.3 Drive Trailer	28	112	state Parts and functions of different parts of the TrailerInspecting Procedures.	Selfpaced learningDiscussionDemonstrationIndividual practice	

3.4 Tow	12	48	-Locations and functions of control partsNature of functions and characteristics of Trailer partsthe Operation of the Trailerthe Driving techniquesthe Traffic regulationsthe Procedure in loading and unloadingto Avoid road hazards. road signsthe Reporting procedure of accidentsto Monitor and reporting vehicle malfunctions. Ability to Perform maintenance checkups -to Use standard toolsto Perform minor vehicle maintenanceto park, couple and uncouple trailer.	Selfpaced Selfpac	
disabled vehicle			methods and procedure to tow disable vehicle. Personal, Vehicle & road Safety rules. Able to: -keep equipment ready for use	learning Discussion Demonstration Individual practice	

-choose right PPE.
-park vehicle with
safe road side.
-take appropriate
action.
-decide correct
method for towing.
-ensure safety
standards.
-adopt defensive.
-driving
techniques.
-adopt correct &
safe procedure to
unhook.
-place disable
vehicle according
to rules &
customer
requirements.

Module 4: Communicate

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
4.1 communicate with supervisor	2	8	-Knowledge of different approaches and strategies and communication skills. Ability to be effective and cooperative team members.	 Selfpaced learning Discussion Demonstration Individual practice 	
4.2 communicate with peers	2	8	-Knowledge of giving clear, concise instruction formulation of instruction, nonverbal communicationAbility to communicate effectively and handle problems.	Do	
4.3 communicate with public	2	8	-Knowledge of important and principles of good client service and good communication skillsAbility to communicate with clients with well manners	Do	
4.4 communicate with loaders	2	8	-Knowledge of giving clear, concise instruction formulation of instruction ,non-verbal	Do	

communication	
-Ability to	
communicate	
effectively and	
handle problems.	

Module 5: Maintain Records

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative	Recommended Methodology	Scheduled Dates
	_	_	assessment		
5.1 maintain	2	8	state the methods,	☑ Selfpaced	
vehicle log			types, procedure of	learning	
book			writing log book. Able to :	DiscussionDemonstration	
			-calculate vehicle	Individual	
			running expenses	practice	
			& repair cost	practice	
			-prepare & plan		
			maintenance chart		
			-different entries		
			to be carried out		
			-handle documents		
			& files in safe		
			custody		
5.2 maintain	2	8	state the methods,	Do	
record of			types, procedure of		
transported			writing record		
goods			book.		
			Able to:		
			-Maintain goods		
			record		
			-Record and file		
			documents.		
			keep documents &		
F 2	2		files in safe custody		
5.3 maintain	2	8	know the methods,	Do	
customer record			types, procedure of writing record		
record			book.		
			Able to record:		
			-customer		
			relationship		
			-financial		
			forecasting		
			-annual		
			complementary		
			gifts		
			-customer's		
			satisfaction		
			comments		

5.4 maintain vehicle history record	2	8	state the methods, types, procedure of writing record book.	Do	
			Able to: -Maintain vehicle record for repair & maintenance -Record and file documents in safe custody.		

Module 6: Secure Cargo

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
6.1 secure cargo for transport	4	16	state: procedure to transport securely cargo. Vehicle weight & legal weight limits Able to: -Inspect cargo - weight and balance -perform blocking and bracing	 Selfpaced learning Discussion Demonstration Individual practice 	
6.2 secure cargo for weather change (rain etc.)	4	16	state the methods adopted for securing cargo in different weather conditions Able to: -cover cargo as per requirement - tie down cargo -adopt safety rules	Do	

Module 7: Maintain Heavy Vehicle

Learning Units	Theory	Workplace	Recommended	Recommended	Scheduled Dates
	Days/hours	Days/hours	formative	Methodology	
	1.0	6.1	assessment		
7.1 service heavy vehicle	16	64	State parts to be inspect regularlyParts of vehicle -systems of vehicle Able to: -List down checking toolscare and use of check-up tools / equipment. Adopt (BLOWAF) procedure in checking the vehicle -adopt health, safety rules and regulations -write service and maintenance reports	 ☑ Selfpaced learning ☑ Discussion ☑ Demonstration ☑ Individual practice -Short answer/ Question. -Direct observation 	
7.2 place vehicle in garage	2	8	state parking procedure, and rules for different places Able to: - park vehicle properly - inspect vehicle -operate the landing gear -set the safety lock of the vehicle	Do	
7.3 store tools/instrumen ts	4	16	describe the types of tools and equipmentrelevant technical information -principles of quality	Do	

			management Able to: -store & record tools/instruments as per nature of useadopt safety Proceduresperform labeling procedures.		
7.4 clean vehicle	2	8	state the procedure, tools, equipment, materials & solvents use for cleaning	Do	
			Able to: -adopt procedure in cleaning the vehiclehandle cleaning tools and materialsdispose wastescare and use of cleaning tools and equipmenthousekeeping.		

Supportive notes

Assessment context

- These learning units may be assessed on the job, off the job or a combination of on and off the job
 demonstrated by an individual working alone. In some areas continuous assessment may be required to
 gauge the competency.
- Assessment of the practical skills must take place only after a period of supervised practice and repetitive
 experience. If work place conditions are not available, assessment is simulated and that the work place
 conditions are acceptable.
- The prescribed outcome must be achieved without direct supervision.
- Competency should be assessed within the context of the qualification being sought.

Critical aspects

Assessment must confirm that the trainee is able to:

- 1: Apply the personal safety rules.
- 2: Apply safety rules when using tools & instruments.
- 3:. Apply vehicle safety rules as recommended by manufacturer.
- 4: Apply road safety rules according to existing law.
- 5: carry out the exercises of applying first aid.
- 6: Select, handle and use hand tools, power tools & workshop tools safely and properly.
- 7: Identify & the function of different parts of truck/bus & trailer.
- 8: Know Inspection procedure of truck/bus & trailer.
- 9: Handle the control parts of truck/bus & trailer.
- 10: Operate/drive truck/bus & trailer.
- 11: Apply driving techniques & traffic regulations.
- 12: Know the loading & unloading procedure.
- 13: Identify road signs.
- 14: Avoid road hazards & report accidents.
- 15: Monitor & report vehicle malfunctions.

- 16: Perform checkup for maintenance.
- 17: Perform Minor vehicle maintenance.
- 18: Identify & function of Air brake parts.
- 19: Maintain parking & emergency brakes.
- 20: Know the procedures of coupling & uncoupling.
- 21: Know towing procedure for disabled vehicles.
- 22: Handle & communicate with supervisor, peer, public & loader.
- 23: Maintain record of log book, goods, customers & vehicle history.
- 24: Secure cargo.
- 25: Carry out the routine checks (BLOWAF).
- 26: Park vehicle in garage.
- 27: store & secure tools/instruments in order.

Resources required for assessment

Materials, tools, equipment and machines are also listed within the learning units.

List of Tools, Machinery & Equipment

Name of Trade	HEAVY VEHICLE OPERATOR
Duration	800 hrs.

S.No.		Name of Item/ Equipment / Tools	Qty.
1.	•	Set of box wrench	2
2.	•	Set of socket wrench	2
3.	•	Set of pliers	2
4.	•	Set of screw driver	3
5.	•	Wire strippers	2
6.	•	Set of mechanic's hammer	2
7.	•	Torque wrench	2
8.	•	Tire wrench	2
9.	•	Trouble light	2
10.	•	Pressure gauge	2
11.	•	Hydraulic jack/lift	2
12.	•	Compressor	1
13.	•	Air tank	1
14.	•	Pressure washer	1
15.	•	Vacuum pump	1
16.	•	Multi-meter	2
17.	•	Vacuum cleaner	1
18.	•	Test light	2

List of Consumable Supplies

Name of Trade	HEAVY VEHICLE OPERATOR
Duration	800 hrs.

S.No.	Name of Consumable Supplies			
1.	Cleaning materials			
2.	• Engine oils			
3.	• Grease			
4.	Distilled water			
5.	• Fuse			
6.	Sealant /adhesive			
7.	Hydraulic oils/gear oil			
8.	Brake fluid			
9.	Suspension fluid			
10.	Antifreeze coolant			
11.	• Gloves			
12.	• Fuel			
13.	Kerosene oil			
14.	Emery Paper			

Training Material

1.	Reference books
2.	Manuals
3.	Catalogues
4.	Brochures
5.	Modules
6.	• CDs
7.	Multimedia/computer or laptop(Internet equipped)
8.	Driving simulators

General Knowledge	Worker Trait
 Knowledge of personal/tools/instruments/road/vehicle safety rules and First aid 	 Physically fit & strong
Handling of hand/power tools and instruments	Honest and trustworthy
Couple and uncouple trailer	 Cooperation
Connecting and disconnecting air & electrical lines	 Avoid smoking & drugs
 Types of terrain/roadways/weathers/night, best driving practice in such scenarios 	
Protective measures form inclement weather, pilferage and	

	damage	
•	Knowledge of record keeping system	
•	Client service & public interaction skills	
•	Time management	
•	Minor maintenance of vehicles	

SCHEME OF STUDIES

Heavy Vehicle Operator

Sr #	Modules	Theory Hours	Practical Hours	Total Hours
1	Module No. 1 Health & Safety Rules	8	32	40
2	Module No. 2 Operate tools and instruments	8	13	40
3	Module No. 3 Operate Heavy Vehicles	96	384	480
4	Module No. 4 Communicate	8	32	40
5	Module No. 5 Maintain Records	8	32	40
6	Module No. 6 Secure Cargo	8	32	40
7	Module No. 7 Maintain Heavy Vehicle	24	96	120
	TOTAL HOURS	160	640	800