ecognition of
Prior Learning (RPL)

ASSESSMENT GUIDE FOR INSPECT AND LUBRICATE AN AUTOMOTIVE SYSTEM

National Certificate in Professional Driving

Qualification ID: 50285

Assessment Guide for

Document 7

Inspect and lubricate an automotive system

UNIT STANDARDS IN THIS VOLUME

Unit Standard Number	Unit Standard Title	NQF Level	Credit Value
119750	Inspect and lubricate an automotive system	2	8

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Answers of Evidence Guide

Unit Standard ID Title: Inspect and lubricate an automotive system

Unit Standard number: 119750

Specific Outcome 1
The learner has learned to plan and prepare to inspect and lubricate an automotive system.

Outcome Range:
- Planning and preparing includes reading and interpreting the job card/work instructions, and obtaining lubrication checklist from workshop manual.
- Preparing includes selecting tools and lubricants.

Assessment Criteria
1. *Learner prepared work area and automotive system for inspection and lubrication.*
2. *Obtained workshop manual and specifications appropriate to automotive system.*
3. *Obtained specified lubricants and fluids.*
4. *Selected and obtained appropriate tools and equipment.*
5. *Prepared work area and automotive system in accordance with SHE requirements.*
6. *Learner can explain the reason/s for selection the appropriate workshop manual for the automotive system.*

Evidence Required **Written Knowledge Test and Practical demonstration of Inspection**		**Evidence sign off**
Section A **Question 1 (3)** List three types of vehicles, which rely on well-designed lubrication systems. Right light vehicles Rigid heavy vehicles Articulated or combination vehicles **Question 2 (4)** List four different automotive systems that require lubrication. Engine systems Transmission systems Differential systems Hydraulic systems **Question 3 (3)** What is the main purpose of lubrication? To prevent two components from coming into Contact with each other and thereby reducing Friction and wear **Question 4 (3)** What are the three additional functions of lubrication? To cool, to clean and to seal		**Self-assessment** *Initial* *Date* **ECF evaluation**

Section B

Planning and preparing for lubrication task (Practical demonstration)
The learner must explain how he / she would plan and prepare to drain the oil from an engine.

	Criteria	Yes	No
1	Getting the work instructions		
2	Checking which vehicle is to be work on		
3	Establishing the size of the engine oil compartment		
4	Checking that the vehicle is located in a safe place		
5	Checking that the surface is firm and level		
6	Establishing which tools and equipment may be required		
7	Determining what assistance may be required		
8	Prepare work area and automotive system in accordance with SHE requirements.		

Initials

Date

Assessment Criteria for Competency:

The learner must obtain 7/13 in Section A to be competent and comply with all 8 criteria.

Answers of Evidence Guide

Specific Outcome 2
Learner is able to drain, refill or top up fluids and apply lubricants.

Outcome Range:
Fluids and lubricants include oils, greases, brake fluid, water and anti-freeze.

Assessment Criteria

1. *Learner drained, refilled and / or topped up automotive system fluids and applies lubricants.*
2. *Fluid levels are checked in accordance with workshop manual procedures.*
3. *Automotive system normalised to operating temperature prior to draining of fluids.*
4. *Areas are cleaned before and after draining fluids*
5. *Fluids are drained in accordance with workshop manual procedures.*
6. *Drain and refill plugs are replaced in accordance with workshop manual procedures*
7. *Filler areas are cleaned prior to filling / topping up fluid compartment.*
8. *Fluid compartments are refilled / topped up with specified fluid and quantity.*
9. *Lubrication points are cleaned prior to lubrication.*
10. *Lubricants are applied to lubrication points in accordance with workshop manual procedures.*
11. *Learner can explain the importance of correct fluid levels.*

Evidence Required

Practical demonstration

Oil and coolant level checking
The learner do inspection on the following requirements:

Check the fluid level of the …

	Criteria	Achieved (Y/N) Yes	No
1	Engine coolant system		
2	Engine oil		
3	Clutch system		
4	Brake system		
5	Differential system		
The learner is able to check the following			
6	Drained, refilled and / or topped up automotive system fluids and applies lubricants		
7	*operating temperature prior to draining of fluids*		
8	Replace Drain and refill plugs		
9	Clean *Filler areas prior to filling fluid compartment*		
10	Refill fluid compartments		
11	Apply lubrication according to lubrication points		
12	The learner must explain verbally the importance of correct fluid levels.		

Evidence sign off

Self-assessment

Initial

Date

ECF evaluation

Initials

Date

Assessment Criteria for Competency:

The learner must obtain all 12 criteria in order to be competent.

Answers for Evidence Guide

Specific Outcome 3
Learner is able to Inspect and identify leaks and defects on automotive system
Outcome Range:
- Inspect includes a visual inspection and recording.
- Defects include cracks, damage, distortion, wear and missing parts.

Assessment Criteria

1. *Learner inspected Automotive system for leaks and defects.*
2. *Automotive system is visually inspected for leaks and defects, while system is in a static condition, and findings are recorded.*
3. *Automotive system is inspected for leaks under operational conditions and findings are recorded.*
4. *Tested functionality of system.*
5. *Learner can explain why an automotive system needs to be inspected when static and operational.*

Evidence Required

Practical demonstration Inspect and identify leaks and defects on automotive system

	Criteria	Yes	No
1	*Learner inspected Automotive system for leaks and defects.*		
2	*Inspect automotive system visually for leaks and defects, while system is in a static condition, and findings are recorded.*		
3	*Inspect automotive system for leaks under operational conditions and findings are recorded.*		
4	*Test the functionality of the system.*		
5	*Learner can explain why an automotive system needs to be inspected when static and operational.*		
6	*Inspect automotive system for leaks and defects.*		

Evidence sign off

Self-assessment

Initial

Date

ECF evaluation

Initials

Date

Assessment Criteria for Competency:

The learner must obtain all 6 criteria in order to be competent.

Answers for Evidence Guide

Specific Outcome 4
Learner has learned to restore work area, complete and process documentation.
Outcome Range:
Restoring includes disposal of waste fluids and lubricants, tools packed away and work area cleaned.
Assessment Criteria

1. *Work area is restored, documentation completed and processed.*
2. *Tools and equipment are cleaned and packed away in accordance with company procedures.*
3. *Work area is cleaned in accordance with good house keeping requirements.*
4. *Hazardous materials are dispose off in accordance with SHE requirements.*
5. *Documentation are complete and processed in according with company procedures.*
6. *Learner can recall company procedures relating to the cleaning and packing away of tools and equipment.*
7. *Learner can explain the impact of good house keeping practices on productivity and a safe working environment.*

Evidence Required

Practical Demonstration

Criteria	Yes	No
Dispose waste fluids and lubricants		
Pack tools away		
Clean work area		
Complete documentation relevant to the work area		
Dispose hazardous materials with SHE requirements		
The learner is able to: Recall the company procedures relating to the cleaning and packing away of tools and equipment		

Housekeeping
The learner is able to explain what aspects need to be considered after the lubrication task, related to housekeeping.

Did the learner mention… Achieved (Y/N)

	Criteria	Yes	No
1	Cleaning up any oil spill		
2	Cleaning and packing away all tools and equipment		
3	Returning all tools and equipment to the stores		
4	Disposal of the old oil		

Evidence sign off

Self-assessment

Initial

Date

ECF evaluation

Initials

Date

Assessment Criteria for Competency:

The learner must meet all the outcomes of the criteria to be competent.