

GENERATOR MECHANIC



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ASSESSMENT PACKAGE
National Vocational Certificate Level 1

Version 1 - November, 2019

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National Vocational Certificate Level 1

Version 1 - November, 2019

Instructions for Candidate (to be given by the Assessor before Assessment)

Title of Qualification: National Vocational Certificate level 1, In Generator Mechanic	CS Code: 071300616	Level: 1	Version: 1 (2019)
Competency Standard Title: Identify tools and equipment	Assessment Date (DD/MM/YY):		

Candidate Details	Name..... Registration/Roll Number.....
Guidance for Candidate	<p>To meet this standard, you are required to complete the following tasks within 40 min timeframe:</p> <ol style="list-style-type: none"> Assessment Task 1: Arrange Tools and Equipment Assessment Task 2: Maintain Tool Box Assessment Task 3: Insulate Tools and Equipment Assessment Task 4: Ensure Calibration measuring tools Assessment Task 5: Manage Inventory of tools and equipment <p>And complete:</p> <ol style="list-style-type: none"> Knowledge assessment test (Written or Oral) Portfolios at the time of assessment (if any)
Minimum Evidence Required	<p>During a practical assessment, under observation by an assessor, you will complete:</p> <p>Task 1: Arrange Tools and Equipment Performance Criteria 1: Identify tools and equipment Performance Criteria 2: Interpret job card Performance Criteria 3: Prepare list of tools and equipment as per requirement Performance Criteria 4: Collect tools and equipment from store</p> <p>Task 2: Maintain Tool Box Performance Criteria 1: Check physical conditions of tools and equipment before use Performance Criteria 2: Perform preventive maintenance as per standards Performance Criteria 3: Perform corrective maintenance of tools as per requirements Performance Criteria 4: Clean tools and equipment after use Performance Criteria 5: Place tools and equipment at appropriate place</p> <p>Task 3: Insulate Tools and Equipment Performance Criteria 1: Select insulated tools and equipment Performance Criteria 2: Adopt insulated tools and equipment as per standards</p> <p>Task 4: Ensure Calibration of measuring Tools Performance Criteria 1: Check calibration status of the measuring tools Performance Criteria 2: Verify calibration of measuring tools as per standards Performance Criteria 3: Identify expiry of calibration period</p>

Task 5: Manage Inventory of tools and equipment

Performance Criteria 1: Check tools and equipment as per record

Performance Criteria 2: Report for faulty tools and equipment to supervisor

Performance Criteria 3: Generate demand for deficit tools and equipment

Performance Criteria 4: Maintain all records of tools and equipment.

Portfolios required at the time of assessment (if any).

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)

071300616 Identify Tools and Equipment

Candidate Details	Name:Registration/Roll Number: Candidate Signature:
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Assessor Name:Assessor's code: Assessor Signature:.....

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							

Feedback to the candidate on assessment.

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Candidate Signature..... Assessor Signature

Assessment Task 1		Description of assessment task 1 Arrange Tools and Equipment		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Performance Criteria 1: Identified tools and equipment			
2.	Performance Criteria 2: Interpreted job card			
3.	Performance Criteria 3: Prepared list of tools and equipment as per requirement			
4.	Performance Criteria 4: Collected tools and equipment from store			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 2		Identify Hazards at Workplace Maintain Tool Box		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1	Performance Criteria 1: Checked physical conditions of tools and equipment before use			
2	Performance Criteria 2: Performed preventive maintenance as per standards			
3	Performance Criteria 3: Performed corrective maintenance of tools as per requirements			
4	Performance Criteria 4: Cleaned tools and equipment after use			
5	Performance Criteria 5: Placed tools and equipment at appropriate place			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 3		Insulate Tools and Equipment		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1	Performance Criteria 1: Selected insulated tools and equipment			
2	Performance Criteria 2: Adopted insulated tools and equipment as per standards			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 4		Ensure Calibration of measuring tools		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1	Performance Criteria 1: Checked calibration status of the measuring tools			
2	Performance Criteria 2: Verified calibration of measuring tools as per standards			
3	Performance Criteria 3: Identified the expiry of calibration period			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 5		Manage Inventory of tools and equipment		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1	Performance Criteria 1: Checked tools and equipment as per record			
2	Performance Criteria 2: Reported for faulty tools and equipment to supervisor			
3	Performance Criteria 3: Generated demand for deficit tools and equipment			
4	Performance Criteria 4: Maintained all records of tools and equipment			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Portfolio (if any)		Description of portfolio		
Current <input type="checkbox"/> Sufficient <input type="checkbox"/> Authentic <input type="checkbox"/> Valid <input type="checkbox"/> Reliable <input type="checkbox"/>				
Portfolio meet the following performance standards:		Yes	No	Remarks
1	Performance criteria for the evaluation of portfolio: Submit log book or activity record (practical journal, project, pictures etc.) completed during the training.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Title of Qualification: National Vocational Certificate level 1, In Generator Mechanic	CS Code: 071300616	Level: 1	Version: 1 (2019)
Competency Standard Title: Identify Tools and Equipment	Assessment 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.
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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 Signature:
Written Assessment Outcome	<div style="display: flex; justify-content: space-between;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </div> Assessor Name: Assessor's code: Assessor Signature:

Feedback to the candidate on assessment.

<div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div>	Candidate Signature..... Assessor Signature
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Title of Qualification: National Vocational Certificate level 1, In Generator Mechanic	CS Code: 071300616	Level: 1	Version: 1 (2019)
Competency Standard Title: Identify Tools and Equipment	Assessment Date (DD/MM/YY): --/--/--		

WRITTEN ASSESSMENT

Question	Candidate's answer
1 What are the functions of different tools?	
2 Define job card?	

Question	Candidate's answer
<p>3 How to arrange tools and equipment in tool box?</p>	
<p>4 Define insulation.?</p>	
<p>5 What is the importance of insulated tools and equipment?</p>	

Question	Candidate's answer
6 Define calibration?	
7 Describe methods of equipment calibration?	
8 Describe different types of calibration?	

Question	Candidate's answer
<p>9 How to manage tools and equipment inventory?</p>	
<p>10 Define stock and dead stock record?</p>	

Instructions for Candidate (to be given by the Assessor before Assessment)

Title of Qualification: National Vocational Certificate level 2, In Generator Mechanic	CS Code: 071300618	Level: 2	Version: 1 (2019)
Competency Standard Title: Identify Generators & Its Components	Assessment Date (DD/MM/YY):		

Candidate Details	Name..... Registration/Roll Number.....
Guidance for Candidate	<p>To meet this standard, you are required to complete the following tasks within 40 min timeframe:</p> <ol style="list-style-type: none"> Assessment Task 1: Identify Generator and its engine Assessment Task 2: Identify Generator components & attachments Assessment Task 3: Identify capacity of generator Assessment Task 4: Identify capabilities of Generator Assessment Task 5: Identify basic tools and supplies associated with Generator <p>And complete:</p> <ol style="list-style-type: none"> Knowledge assessment test (Written or Oral) Portfolios at the time of assessment (if any)
Minimum Evidence Required	<p>During a practical assessment, under observation by an assessor, you will complete:</p> <p>Task 1: Identify Generator and its engine Performance Criteria 1: Identify petrol engine Performance Criteria 2: Identify diesel engine Performance Criteria 3: Identify gas engine</p> <p>Task 2: Identify Generator components & attachments Performance Criteria 1: Identify alternator Performance Criteria 2: Identify fuel pump Performance Criteria 3: Identify water pump Performance Criteria 4: Identify radiator Performance Criteria 5: Identify turbo charger/inter cooler</p> <p>Task 3: Identify capacity of Generator Performance Criteria 1: Check capacity as per manufacturer's specification Performance Criteria 2: Ensure proper capacity of Generator</p>

Task 4: Identify capabilities of Generator

Performance Criteria 1: Check capability as per manufacturer's specification

Performance Criteria 2: Ensure proper capability of Generator as per rating

Performance Criteria 3: Report to supervisor as per format

Task 5: Identify basic tools and supplies associated with Generator

Performance Criteria 1: Check standard tools supplies with Generators

Performance Criteria 2: Check spare/consumable materials

Performance Criteria 3: Adopt manufacturer's specifications of tools and equipment

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)

071300618 Identify Generators & Its Components

Candidate Details	Name:Registration/Roll Number: Candidate Signature:.....
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Assessor Name:.....Assessor's code:..... Assessor Signature:

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							

Feedback to the candidate on assessment.

<div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 10px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 10px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 10px;"></div> <div style="border-bottom: 1px solid black; height: 20px;"></div>
Candidate Signature..... Assessor Signature

Assessment Task 1		Description of assessment task 1 Identify Generator and its Engine		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Performance Criteria 1: Identified petrol engine			
2.	Performance Criteria 2: Identified diesel engine			
3.	Performance Criteria 3: Identified gas engine			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 2		Identify components & Attachments		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1	Performance Criteria 1: Identified alternator			
2	Performance Criteria 2: Identified fuel pump			
3	Performance Criteria 3: Identified water pump			
4	Performance Criteria 4: Identified radiator			
5	Performance Criteria 5: Identified turbo charger/inter cooler			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 3		Identify capacity of generator		
During the practical assessment, candidate demonstrated the following:				
2	Performance Criteria 1: Checked capacity as per manufacturer's specification			
2	Performance Criteria 2: Ensured proper capacity of Generator			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 4		Identify capabilities of Generator		
During the practical assessment, candidate demonstrated the following:				
1	Performance Criteria 1: Checked capability as per manufacturer's specification			
2	Performance Criteria 2: Ensured proper capability of Generator			
3	Performance Criteria 3: Reported to supervisor as per format			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Assessment Task 5		Identify basic tools and supplies associated with Generator		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1	Performance Criteria 1: Checked standard tools supplied with Generators			
2	Performance Criteria 2: Checked spare/consumable materials			
3	Performance Criteria 3: Adopted manufacturer's specifications of tools and equipment			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Portfolio (if any)		Description of portfolio		
Current <input type="checkbox"/> Sufficient <input type="checkbox"/> Authentic <input type="checkbox"/> Valid <input type="checkbox"/> Reliable <input type="checkbox"/>				
Portfolio meet the following performance standards:		Yes	No	Remarks
1	Performance criteria for the evaluation of portfolio: Submit log book or activity record (practical journal, project, pictures etc.) completed during the training.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Title of Qualification: National Vocational Certificate level 2, In Generator Mechanic	CS Code: 071300618	Level: 2	Version: 1 (2019)
Competency Standard Title: Identify Generators & Its Components	Assessment 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.
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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 Signature:
Written Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Assessor Name: Assessor's code: Assessor Signature:

Feedback to the candidate on assessment.

<hr/> <hr/> <hr/> <hr/>
Candidate Signature..... Assessor Signature

Title of Qualification: National Vocational Certificate level 2, In Generator Mechanic	CS Code: 071300618	Level: 2	Version: 1 (2019)
Competency Standard Title: Identify Generators & Its Components	Assessment Date (DD/MM/YY): --/--/--		

WRITTEN ASSESSMENT

Question	Candidate's answer
11 Define Petrol engine and its functions?	
12 Define Diesel engine and its functions?	
13 Describe Gas engines and its functions?	

Question	Candidate's answer
14 Define alternator?	
15 Define fuel pump?	
16 Define water pump?	
17 Define radiator?	

Question	Candidate's answer
18 Define functions of turbo charger/intercooler?	
19 Define Generator capacity?	
20 Define specification of different Generator sets?	
21 Define HP, CC and KW/KVA?	

Question	Candidate's answer
22 Explain basic conversion techniques between HP, CC, and KW/KVA?	

Title of Qualification: National Vocational Certificate level 1, In Generator Mechanic	CS Code: 0713E&E18	Level: 1	Version: 1 (2019)
Competency Standard Title: National Vocational Certificate Level – 1 in Generator Mechanic	Assessment Date (DD/MM/YY):		

Candidate Details	Name: Registration/Roll Number:.....
Guidance for Candidate	<p>To meet this standard, you are required to complete the following activities within 03 Hrs. time frame (for practical demonstration & assessment):</p> <ul style="list-style-type: none"> In a given situation to identify and use of the PPEs, tools and equipment as per requirements <p>And complete:</p> <ol style="list-style-type: none"> Knowledge assessment test (Written or Oral). Portfolios at the time of assessment (if any).
Minimum Evidence Required	<p>During a practical assessment, under the observation by an assessor, you are required to demonstrate the following criteria</p> <ol style="list-style-type: none"> Performance Criteria 1: Wear correct personal protective equipment Performance Criteria 2: Check first aid box for requisite emergency medicines Performance Criteria 3: Operate fire extinguisher Performance Criteria 4: Demonstrate first aid cardio respiratory, resuscitation Performance Criteria 5: Maintain Toolbox Performance Criteria 6: Ensure Calibration of measuring tools. Performance Criteria 7: Select and adopt insulated tools to check electrical installations Performance Criteria 8: Identify Generator and its components

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

Candidate Name	
Registration No.	
Qualification	National Vocational Certificate Level – 1 in Generator Mechanic
Purpose of Assessment	Summative Assessment
Assessment Task	<p>In a given situation to identify and use of the PPEs, tools and equipment as per requirements</p> <ul style="list-style-type: none"> Knowledge Assessment

I can perform.....

Performance Criteria	Yes	No
Wear correct personal protective equipment	<input type="checkbox"/>	<input type="checkbox"/>
Check first aid box for requisite emergency medicines	<input type="checkbox"/>	<input type="checkbox"/>
Operate Fire Extinguisher	<input type="checkbox"/>	<input type="checkbox"/>
Demonstrate first aid cardio respiratory, resuscitation	<input type="checkbox"/>	<input type="checkbox"/>
Maintain Toolbox	<input type="checkbox"/>	<input type="checkbox"/>
Ensure Calibration of measuring tools	<input type="checkbox"/>	<input type="checkbox"/>
Select and adopt insulated tools to check electrical installations	<input type="checkbox"/>	<input type="checkbox"/>
Identify Generator and its components	<input type="checkbox"/>	<input type="checkbox"/>

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)

National Vocational Certificate Level – 1 in Generator Mechanic

Candidate Details	Name:Registration/Roll Number: Candidate's Signature:
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Assessor Name:.....Assessor's code: Assessor's Signature:

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							

Feedback to the Candidate

Candidate's Signature _____ Assessor's Signature _____

Each Assessment Task (with performance criteria)				
Assessment Task		Description of assessment task Identify and use of the PPEs, tools and equipment as per requirements		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Performance Criteria 1: Wore correct personal protective equipment			
2.	Performance Criteria 2: Checked first aid box for requisite emergency medicines			
3.	Performance Criteria 3: Operated Fire Extinguisher			
4.	Performance Criteria 4: Demonstrated first aid cardio respiratory, resuscitation			
5.	Performance Criteria 5: Maintained Tool Box			
6.	Performance Criteria 6: Ensured Calibration of measuring tools.			
7.	Performance Criteria 7: Selected and adopted insulated tools to check electrical installations			
8.	Identified Generator and its components attachment			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	National Vocational Certificate Level – 1 in Generator Mechanic
Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration Number: _____ Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-around; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </div> Name of the Assessor _____ Assessor's code: _____ Signature: _____

Portfolio (if any)	Description of portfolio			
Current <input type="checkbox"/> Sufficient <input type="checkbox"/> Authentic <input type="checkbox"/> Valid <input type="checkbox"/> Reliable <input type="checkbox"/>				
Portfolio meet the following performance 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 <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Feedback to the Candidate

Candidate's Signature _____ Assessor's Signature _____	

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Name any three PPEs used at workplace?		
2.	Name emergency medicines available in first aid box?	Satisfactory	Not Satisfactory
3.	Describe different types of Fire Extinguisher?	Satisfactory	Not Satisfactory

4.	Why Calibration of measuring tools is important?	Satisfactory	Not Satisfactory
5	What is Cardio respiratory resuscitation?	Satisfactory	Not Satisfactory

6.	Define function of Alternator?	Satisfactory	Not Satisfactory
7.	Define water pump?	Satisfactory	Not Satisfactory

