

ELECTRONIC HOME APPLIANCES TECHNICIAN



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ASSESSMENT PACKAGES

National Vocational Certificate Level 2

Version 1 - March 2014



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für Internationale
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Islamic Republic of Pakistan
اسلامی جمہوریہ پاکستان
Islami Jumhuri-ye Pakistan



NAVTC

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 Reform Support Programme, Deutsche Gesellschaft für Internationale
Zusammenarbeit (GIZ) GmbH

Layout & design

SAP Communications

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This document has been produced with the technical assistance of the TVET Reform Support Programme, which is funded by the European Union, the Embassy of the Kingdom of the Netherlands, 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 (NAVTTTC) as well as provincial Technical Education and Vocational Training Authorities (TEVTAs), Punjab Vocational Training Council (PVTC), Qualification Awarding Bodies (QABs) and private sector organizations.

Document Version

March, 2014

Islamabad, Pakistan

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| ASSESSMENT MATERIAL EVIDENCE GUIDE | <h1 style="margin: 0;">ELECTRONIC HOME APPLIANCES TECHNICIAN</h1> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Qualification Electronic Home Appliance Technician Qualification Code: Level: 2 Credit: 80 Version: 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONTENTS | 1. Assessment Summary and Record 2. Candidate Assessment 3. Assessor Judgement Guide 4. List of required tools/equipment, material and context of assessment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ASSESSMENT AND ASSESSOR DETAILS | <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Competent <input type="checkbox"/></td> <td style="width: 50%;">Not Yet Competent <input type="checkbox"/></td> </tr> <tr> <td>Assessment <input type="checkbox"/></td> <td>Re-Assessment <input type="checkbox"/></td> </tr> <tr> <td colspan="2">Assessor's Name: _____ Assessor's Code _____</td> </tr> <tr> <td colspan="2">Assessor's Signature _____ Date _____</td> </tr> <tr> <td></td> <td style="text-align: center;"> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="text-align: center;">DD</td> <td style="text-align: center;">MM</td> <td colspan="6"></td> <td style="text-align: center;">YYYY</td> </tr> </table> </td> </tr> </table> | Competent <input type="checkbox"/> | Not Yet Competent <input type="checkbox"/> | Assessment <input type="checkbox"/> | Re-Assessment <input type="checkbox"/> | Assessor's Name: _____ Assessor's Code _____ | | Assessor's Signature _____ Date _____ | | | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="text-align: center;">DD</td> <td style="text-align: center;">MM</td> <td colspan="6"></td> <td style="text-align: center;">YYYY</td> </tr> </table> | | | | | | | | | | | DD | MM | | | | | | | YYYY | | | | | | | | | |
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| ASSESSMENT RESULTS SUMMARY FORM | You can use this coversheet as an <i>Assessment Results Summary Form</i> . Simply post a photocopy of this completed coversheet to NAVTTCC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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1

ASSESSMENT SUMMARY & RECORD

| ACTIVITY | METHOD | | | | DESIRED OUTCOMES | RESULT | |
|-------------------------------|---------|------|-----------|-------------|--|-----------|-------------------|
| | WRITTEN | ORAL | PORTFOLIO | OBSERVATION | | COMPETENT | NOT YET COMPETENT |
| NATURE OF ACTIVITY | | | | | DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF THE QUALIFICATION; SERVICING ELECTRONIC HOME APPLIANCES | | |
| Practical Skill Demonstration | | | | ✓ | <ul style="list-style-type: none"> Apply Occupational Health and Safety Perform basic installation of electronic home appliances Repair home appliance Perform replacement components of home appliances Perform preventive maintenance | | |
| Knowledge Assessment | | ✓ | | | <ul style="list-style-type: none"> Answer any questions your Assessor may have during the practical assessment | | |
| Other Requirements | | | ✓ | | <ul style="list-style-type: none"> Complete all course assignments | | |

2

CANDIDATE ASSESSMENT

Candidate's Name Father's Name

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this Qualification you are required to perform the following task in **five(5)hours** timeframe :

- Service electronics home appliances including :
 - ✓ Service the faulty washing machine for standard operation
 - ✓ Service the faulty microwave oven for standard operation
 - ✓ Install Electronics home appliances

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Report to supervisor in case of any contingency after taking necessary actions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

| ACTIVITIES | CANDIDATE RESPONSE |
|--|--|
| <p>1. Complete practical task of servicing electronic home appliance sunder observation by an assessor</p> | <p>During a practical assessment, under observation by an assessor, I will correctly:</p> <ul style="list-style-type: none"> • Service the faulty washing machine for standard operation <ul style="list-style-type: none"> ✓ Prepare the unit and required materials, tools equipment and workplace properly for installation and service ✓ Verify repair/maintenance history ✓ Conduct complete check-up of product and systems, and identifies, verifies and documents defects against customer description ✓ Test devices in accordance with standard procedures ✓ Undertake final inspection ✓ Respond to unplanned events or conditions ✓ Clean and clear work site of all debris ✓ Identify system defects/faults using appropriate tools and equipment ✓ Diagnose faults and defects ✓ Check and isolate circuits ✓ Check control settings/adjustments ✓ Replace defective parts/components with identical or recommended appropriate equivalent ratings ✓ Maintain/Repair consumer electronic products ✓ Re-assemble and test repaired consumer electronic product ✓ Dispose waste materials ✓ Apply safety rules and procedures • Service the faulty microwave oven for standard operation <ul style="list-style-type: none"> ✓ Prepare the unit and required materials, tools equipment and workplace properly for installation and service ✓ Verify repair/maintenance history ✓ Conduct complete check-up of product and systems, and identifies, verifies and documents defects against customer description ✓ Test devices in accordance with standard procedures ✓ Undertake final inspection ✓ Respond to unplanned events or conditions ✓ Clean and clear work site of all debris |

| | |
|--|---|
| | <ul style="list-style-type: none"> ✓ Identify system defects/faults using appropriate tools and equipment ✓ Diagnose faults and defects ✓ Check and isolate circuits ✓ Check control settings/adjustments ✓ Replace defective parts/components with identical or recommended appropriate equivalent ratings ✓ Maintain/Repair consumer electronic products ✓ Re-assemble and test repaired consumer electronic product ✓ Dispose waste materials ✓ Apply safety rules and procedures • Install electronics home appliance <ul style="list-style-type: none"> ✓ Obtain and clarify work instructions ✓ Identify, prepare and obtain parts and components needed ✓ Prepare and check required materials, tools and equipment ✓ Prepare electronic components for assembly ✓ Verify PCB layout in conformity with the schematic diagram ✓ Prepare/Make printed circuit board modules ✓ Clean PCB based on standard procedures ✓ Test and visually inspect the functionality of the PCB ✓ Mount and solder electronic components ✓ Apply soldering/de-soldering techniques and procedures ✓ Check soldered products ✓ Assemble electronic components ✓ Integrate modules and accessories ✓ Perform assembly procedures of electronic products ✓ Test and inspect assembled electronic products ✓ Subject finished products to final visual/sensory inspection and testing ✓ Apply safety rules and procedures • General performance criteria: <ul style="list-style-type: none"> ✓ Follow health and safety procedure as per the requirements of given task ✓ Prepare work station as per the requirements of task ✓ Select tools/ equipment as per the requirements of task ✓ Report to supervisor in case of any contingency after taking necessary actions ✓ Complete the work by following sequence of operations ✓ Perform task(s) within standard timeframe |
| <p>2. Other requirements</p> | <p>Completed all course assignments</p> |
| <p>3. Answer any questions your Assessor may have during the practical assessment</p> | <p>My answers to questions are correct and demonstrate my understanding of the topics and their application:</p> |

3

ASSESSOR JUDGEMENT GUIDE

| | |
|---------------------------------|--|
| INSTRUCTION FOR ASSESSOR | This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application. |
|---------------------------------|--|

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|---|-----|----|-------------------|
| 1. Completes practical task of servicing electronic home appliances under observation by an assessor | During a practical assessment, under observation by an assessor, the candidate correctly carried out: | | | |
| Service the faulty washing machine for standard operation | Prepare the unit and required materials, tools equipment and workplace properly for installation and service | | | |
| | Verify repair/maintenance history | | | |
| | Conduct complete check-up of product and systems, and identifies, verifies and documents defects against customer description | | | |
| | Test devices in accordance with standard procedures | | | |
| | Undertake final inspection | | | |
| | Respond to unplanned events or conditions | | | |
| | Clean and clear work site of all debris | | | |
| | Identify system defects/faults using appropriate tools and equipment | | | |
| | Diagnose faults and defects | | | |
| | Check and isolate circuits | | | |
| | Check control settings/adjustments | | | |
| | Replace defective parts/components with identical or recommended appropriate equivalent ratings | | | |
| | Maintain/Repair consumer electronic products | | | |
| | Re-assemble and test repaired consumer electronic product | | | |
| | Dispose waste materials | | | |
| Apply safety rules and procedures | | | | |
| Serviced the faulty Microwave oven for standard operation | Prepare the unit and required materials, tools equipment and workplace properly for installation and service | | | |
| | Verify repair/maintenance history | | | |
| | Conduct complete check-up of product and systems, and identifies, verifies and documents defects against customer description | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|------------------------------------|---|-----|----|-------------------|
| | Test devices in accordance with standard procedures | | | |
| | Undertake final inspection | | | |
| | Respond to unplanned events or conditions | | | |
| | Clean and clear work site of all debris | | | |
| | Identify system defects/faults using appropriate tools and equipment | | | |
| | Diagnose faults and defects | | | |
| | Check and isolate circuits | | | |
| | Check control settings/adjustments | | | |
| | Replace defective parts/components with identical or recommended appropriate equivalent ratings | | | |
| | Maintain/Repair consumer electronic products | | | |
| | Re-assemble and test repaired consumer electronic product | | | |
| | Dispose waste materials | | | |
| | Apply safety rules and procedures | | | |
| Install electronics home appliance | Obtain and clarify work instructions | | | |
| | Identify, prepare and obtain parts and components needed | | | |
| | *Prepare and check required materials, tools and equipment | | | |
| | Prepare electronic components for assembly | | | |
| | Verify PCB layout in conformity with the schematic diagram | | | |
| | Prepare/Make printed circuit board modules | | | |
| | Clean PCB based on standard procedures | | | |
| | Test and visually inspect the functionality of the PCB | | | |
| | Mount and solder electronic components | | | |
| | Apply soldering/de-soldering techniques and procedures | | | |
| | Check soldered products | | | |
| | Assemble electronic components | | | |
| | Integrate modules and accessories | | | |
| | Perform assembly procedures of electronic products | | | |
| | Test and inspect assembled electronic products | | | |
| | Subject finished products to final visual/sensory inspection and testing | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|--|-----|----|-------------------|
| | Apply safety rules and procedures | | | |
| General performance criteria | Followed health and safety procedure as per the requirements of given task | | | |
| | Prepared work station as per the requirements of task | | | |
| | Selected tools/ equipment as per the requirements of task | | | |
| | Reported to supervisor in case of any contingency after taking necessary actions | | | |
| | Completed the work by following sequence of operations | | | |
| | Performed task(s) within standard timeframe | | | |
| 2. Other Requirements | Completed all course assignments in the form of portfolio | | | |
| 3. Answer any questions their Assessor may have during the practical assessment | <p>Candidate's answers to questions are correct and demonstrate understanding of the topics and their application.</p> <p>Assessor to document below all questions asked, if any, and the answers:</p> | | | |

4

LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

| | |
|--------------------------|---|
| INSTRUCTIONS | This section contains information regarding: <ul style="list-style-type: none"> Context of the assessment List of required tools and equipment List of consumables |
| 1. Context of Assessment | This task will be performed in real time. |

| 2. List of tools and equipment required (For five students) | | |
|---|---|----------|
| S. No | Name of Items (tools and equipment) | Quantity |
| 1 | Coveralls | |
| 2 | Safety helmet | |
| 3 | Hand gloves | |
| 4 | Safety shoes | |
| 5 | Splash goggles | |
| 6 | Full face gas mask | |
| 7 | Apron (Acid suit) | |
| 8 | Dust mask | |
| 9 | Combination spanner set | |
| 10 | Allen key set | |
| 11 | Hammer | |
| 12 | Files set | |
| 13 | Screw driver set | |
| 14 | Combination plier | |
| 15 | Nose plier | |
| 16 | socket set | |
| 17 | Impact wrench | |
| 18 | Pipe wrench | |
| 19 | Adjustable wrench | |
| 20 | Inspection mirror | |
| 21 | Measuring tape | |
| 22 | Scriber | |
| 23 | Gauges (filler, universal, depth, go /not go, | |
| 24 | Vibration meter | |
| 25 | Tachometer | |
| 26 | dB meter | |

| 3. List of consumable items required (For five students) | | |
|--|-----------------------------|----------|
| S. No | Items | Quantity |
| 1 | Cotton waste | |
| 2 | Anti-corrosion spray | |
| 3 | Lapping paste (Amery paste) | |
| 4 | Wire brush | |
| 5 | Painting brush | |
| 6 | Disposable coverall | |
| 7 | Alignment shims | |
| 8 | Grease | |
| 9 | Kerosene oil | |



ASSESSMENT
MATERIAL

**EVIDENCE
GUIDE**

Qualification
Electronic Home Appliance
CS Code:
Level: 2
Credit: 11
Version: 1

ENSURE OCCUPATIONAL HEALTH & SAFETY

CONTENTS

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgement Guide
4. List of required tools/equipment, material and context of assessment

**ASSESSMENT AND
ASSESSOR
DETAILS**

| | | | | | | | | | | | | | | | | | | | | |
|--|---|------|--|--|--|--|--|--|--|--|--|----|----|------|--|--|--|--|--|--|
| Competent <input type="checkbox"/> | Not Yet Competent <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | |
| Assessment <input type="checkbox"/> | Re-Assessment <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | |
| Assessor's Name: _____ Assessor's Code _____ | | | | | | | | | | | | | | | | | | | | |
| Assessor's Signature _____ Date | | | | | | | | | | | | | | | | | | | | |
| | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="text-align: center;">DD</td> <td style="text-align: center;">MM</td> <td colspan="7" style="text-align: center;">YYYY</td> </tr> </table> | | | | | | | | | | | DD | MM | YYYY | | | | | | |
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| DD | MM | YYYY | | | | | | | | | | | | | | | | | | |

**CANDIDATE
DETAILS**

Candidate's Name: _____
First Name Last Name

Father's Name _____

Institute Name and District _____

CNIC/BFORM#

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Registration Number issued by Assessment Body: _____

Gender: Male Female Transgender

Candidate's Consent: I agree to the time and date of the assessment and am aware of the requirements of the assessment. I fully understand my rights of appeal.

Candidate's Signature: _____

**ASSESSMENT
RESULTS
SUMMARY FORM**

You can use this coversheet as an *Assessment Results Summary Form*. Simply post a photocopy of this completed coversheet to **NAVTTTC**

**NAVTTTC OFFICE
ONLY**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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1

ASSESSMENT SUMMARY & RECORD

| ACTIVITY | METHOD | | | | DESIRED OUTCOMES | RESULT | |
|-------------------------------|---------|------|-----------|-------------|--|-----------|-------------------|
| | WRITTEN | ORAL | PORTFOLIO | OBSERVATION | | COMPETENT | NOT YET COMPETENT |
| NATURE OF ACTIVITY | | | | | DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: ENSURE OCCUPATIONAL HEALTH & SAFETY | | |
| Practical skill demonstration | | | | ✓ | <ul style="list-style-type: none"> • Use of fire extinguisher • Handling victim of electrical shock • Apply first aid to injured person | | |
| Knowledge Assessment | | ✓ | | | <ul style="list-style-type: none"> • Answer any questions your Assessor may have during the practical assessment | | |
| Other Requirement | | | | | <ul style="list-style-type: none"> • NA | | |

2

CANDIDATE ASSESSMENT

Candidate's Name Father's Name

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform the following tasks in *2(two) hours*:

- Apply personal safety measures according to industry standard.
- Apply Tools and equipment safety measures according to industry standard.
- Apply environment safety measures according to industry standard.
- Apply safety measures according to job requirement as per industry standard.

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Report to supervisor in case of any contingency after taking necessary actions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

| ACTIVITIES | CANDIDATE RESPONSE |
|---|--|
| <p>1. Complete practical task of ensuring Occupational Health & Safety under observation by an assessor</p> | <p>During a practical assessment, under observation by an assessor, I will correctly :</p> <ul style="list-style-type: none"> • Apply personal safety measures according to industry standard <ul style="list-style-type: none"> ✓ Wear personal protective equipment (PPE) according to industry standard ✓ Remove hazardous jewellery for personal safety measures • Apply tools and equipment safety measures according to industry standard <ul style="list-style-type: none"> ✓ Identify tools according to job requirement ✓ Check tools condition as per standard ✓ Calibrate minor errors of tools and equipment ✓ Maintain tools according to job ✓ Use tools according to job ✓ Check service tag according job requirement • Apply environment safety measures according to industry standard <ul style="list-style-type: none"> ✓ Perform worksite housekeeping as per industry standard ✓ Check adequate light and ventilation • Apply safety measures according to job <ul style="list-style-type: none"> ✓ Check work permit/order as per job requirement ✓ Use of first Aid kit as per standard ✓ Use of fire extinguisher according to hazards ✓ Check isolation of appliances as per standard <p>Role play may be used to provide evidence for these tasks.</p> <ul style="list-style-type: none"> • General performance criteria: <ul style="list-style-type: none"> ✓ Follow health and safety procedure as per the requirements of given task ✓ Prepare work station as per the requirements of task ✓ Select tools/ equipment as per the requirements of task ✓ Report to supervisor in case of any contingency after taking necessary actions ✓ Complete the work by following sequence of operations ✓ Perform task(s) within standard timeframe |

| | |
|---|---|
| 2. Answer any questions your Assessor may have during the practical assessment | My answers to questions are correct and demonstrate my understanding of the topics and their application: |
|---|---|

3

ASSESSOR JUDGEMENT GUIDE

INSTRUCTION FOR ASSESSOR

THIS SECTION CONTAINS MODEL ANSWERS AND/OR MINIMUM EVIDENCE REQUIREMENTS. Where model answers are provided for the Assessor, the candidate's response is not required to be identical but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of the topic and its application.

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|---|-----|----|-------------------|
| 1. Complete practical task of ensuring Occupational Health & Safety under observation by an assessor | During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks. | | | |
| Applying personal safety measures according to industry standard | Wore personal protective equipment (PPE) according to industry standard | | | |
| | Removed hazardous jewellery for personal safety measures | | | |
| Applying tools and equipment safety measures according to industry standard | Identified tools according to job requirement | | | |
| | Checked tools condition as per standard | | | |
| | Calibrated minor errors of tools and equipment | | | |
| | Maintained tools according to job | | | |
| | Used tools according to job | | | |
| | Checked service tag according to job requirement | | | |
| Applying environment safety measures according to industry standard | Performed worksite housekeeping as per industry standard | | | |
| | Checked adequate light and ventilation | | | |
| Applying safety measures according to job | Checked work permit/order as per job requirement | | | |
| | Used first Aid kit as per standard | | | |
| | Used fire extinguisher according to hazards | | | |
| | Checked isolation of appliances as per standard | | | |
| General performance criteria | Followed health and safety procedure as per the requirements of given task | | | |
| | Prepared work station as per the requirements of task | | | |
| | Selected tools/ equipment as per the requirements of task | | | |
| | Reported to supervisor in case of any contingency after taking necessary actions | | | |
| | Completed the work by following sequence of operations | | | |
| | Performed task(s) within standard timeframe | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|---|-----|----|-------------------|
| <p>2. Answer any questions you may have during the practical assessment</p> | <p>Candidate's answers to questions are correct and demonstrate understanding of the topics and their application.</p> <p><i>Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.</i></p> | | | |

4

LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

| | |
|---------------------------------|--|
| INSTRUCTIONS | <p>This section contains information regarding:</p> <ul style="list-style-type: none"> • Context of the assessment • List of required tools and equipment • List of consumables |
| 1. Context of Assessment | This task will be performed in real time or through role-play . |

| 2. List of tools and equipment (For five students) | | |
|---|-------------------|----------|
| S. No | Items | Quantity |
| 1 | Coveralls | |
| 2 | Safety helmet | |
| 3 | Hand gloves | |
| 4 | Safety shoes | |
| 5 | Splash goggles | |
| 6 | Apron | |
| 7 | Dust mask | |
| 8 | Allen key set | |
| 9 | Hammer | |
| 10 | Files set | |
| 11 | Screw driver set | |
| 12 | Combination plier | |
| 13 | Nose plier | |
| 14 | socket set | |
| 15 | Inspection mirror | |
| 16 | Measuring tape | |
| | | |

| 3. List of consumable items (For five students) | | |
|--|-----------------------------|----------|
| S. No | Items | Quantity |
| 1 | Cotton waste | |
| 2 | Anti-corrosion spray | |
| 3 | Lapping paste (Amery paste) | |
| 4 | Wire brush | |
| 5 | Painting brush | |
| 6 | Disposable coverall | |
| 7 | Alignment shims | |
| 8 | Grease | |
| 9 | Kerosene oil | |
| 10 | Fire extinguisher | |
| | | |



ASSESSMENT
MATERIAL

**EVIDENCE
GUIDE**

Qualification
Electronic Home Appliance
Technician
CS Code:
Level: 2
Credit: 14
Version: 1

**PERFORM BASIC INSTALLATION OF HOME
APPLIANCES**

CONTENTS

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgement Guide
4. List of required tools/equipment, material and context of assessment

**ASSESSMENT AND
ASSESSOR
DETAILS**

Competent Not Yet Competent

Assessment Re-Assessment

Assessor's Name: _____ Assessor's Code _____

Assessor's Signature _____ Date

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

DD MM YYYY

**CANDIDATE
DETAILS**

Candidate's Name: _____
First Name Last Name

Father's Name _____

Institute Name and District _____

CNIC/BFORM#

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Registration Number issued by Assessment Body: _____

Gender Male Female Transgender

Candidate's Consent I agree to the time and date of the assessment and am aware of the requirements of the assessment. I fully understand my rights of appeal.

Candidate's Signature: _____

**ASSESSMENT
RESULTS
SUMMARY FORM**

You can use this coversheet as an *Assessment Results Summary Form*. Simply post a photocopy of this completed coversheet to NAVTTC

**NAVTTC OFFICE
ONLY**

1. DATE FORM RECEIVED:

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 DD MM YYYY

2. DATE ENTERED INTO DATABASE:

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|--|--|--|--|--|--|--|--|--|--|

 DD MM YYYY

1

ASSESSMENT SUMMARY & RECORD

| ACTIVITY | METHOD | | | DESIRED OUTCOMES | RESULT | |
|-------------------------------|---------|------|-------------|--|-----------|-------------------|
| | WRITTEN | ORAL | OBSERVATION | | COMPETENT | NOT YET COMPETENT |
| NATURE OF ACTIVITY | | | | DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PERFORM BASIC INSTALLATION OF HOME APPLIANCES | | |
| Practical Skill Demonstration | | | ✓ | <ul style="list-style-type: none"> Use appliance installation manual Install appliances as per industry standards Perform test run of home appliances | | |
| Knowledge Assessment | | ✓ | | <ul style="list-style-type: none"> Answer any questions your Assessor may have during the practical assessment | | |
| Other Requirements | ✓ | | | <ul style="list-style-type: none"> NA | | |

2

CANDIDATE ASSESSMENT

Candidate's Name Father's Name

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform the following task in **three (3) hours** timeframe:

- Use Installation manual
- Install appliances according to manual
- Perform test run accordingly to industry standard

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Report to supervisor in case of any contingency after taking necessary actions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

| ACTIVITIES | CANDIDATE RESPONSE |
|--|---|
| <p>1. Complete practical task of performing basic installation of home appliances under observation by an assessor</p> | <p>During a practical assessment, under observation by an assessor, I will correctly perform the following tasks:</p> <ul style="list-style-type: none"> • Use installation manual of appliances <ul style="list-style-type: none"> ✓ Prepare tools and equipment according to instruction manual ✓ Unpack equipment accordingly ✓ Inspect equipment and accessories • Installation of appliances meets standard procedure <ul style="list-style-type: none"> ✓ Visit the location of installation of equipment for installable equipment ✓ List tools for installation ✓ Arrange human resources for installable equipment ✓ Mark the location equipment ✓ Fix the foundation/base frame according to job ✓ Position the equipment for final installation ✓ Attach accessories accordingly • Perform test run to ensure correct operation <ul style="list-style-type: none"> ✓ Check main supply and ensure supply presence ✓ Check electrical connection of equipment ✓ Check leakage(current, water, insulation) of equipment ✓ Perform test run according to industry standard ✓ Complete checklist of operation • General performance criteria: <ul style="list-style-type: none"> ✓ Follow health and safety procedure as per the requirements of given task ✓ Prepare work station as per the requirements of task ✓ Select tools/ equipment as per the requirements of task ✓ Report to supervisor in case of any contingency after taking necessary actions ✓ Complete the work by following sequence of operations ✓ Perform task(s) within standard timeframe |

| | |
|---|---|
| 2. Answer any questions your Assessor may have during the practical assessment | My answers to questions are correct and demonstrate my understanding of the topics and their application: |
|---|---|

3

ASSESSOR JUDGEMENT GUIDE

INSTRUCTION FOR ASSESSOR

This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application.

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|--|---|-----|----|-------------------|
| 1. Complete practical task of basic installation of home appliances under observation by an assessor | During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks: | | | |
| Use installation manual of appliances | Prepared tools and equipment according to instruction manual | | | |
| | Unpacked equipment accordingly | | | |
| | Inspected equipment and accessories | | | |
| Installation of appliances meets standard procedure | Visited the location of installation of equipment for installable equipment | | | |
| | Listed tools for installation | | | |
| | Arranged human resources for installable equipment | | | |
| | Made the location equipment | | | |
| | Fixed the foundation/base frame according to job | | | |
| | Positioned the equipment | | | |
| Perform test run to ensure correct operation | Checked main supply | | | |
| | Checked electrical connection of equipment | | | |
| | Checked leakage(current, water, insulation) of equipment | | | |
| | Performed test run according to industry standard | | | |
| | Completed checklist of operation | | | |
| General performance criteria | Followed health and safety procedure as per the requirements of given task | | | |
| | Prepared work station as per the requirements of task | | | |
| | Selected tools/ equipment as per the requirements of task | | | |
| | Reported to supervisor in case of any contingency after taking necessary actions | | | |
| | Completed the work by following sequence of operations | | | |
| | Performed task(s) within standard timeframe | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|---|-----|----|-------------------|
| <p>2. Answer any questions you may have during the practical assessment</p> | <p>Candidate's answers to questions are correct and demonstrate understanding of the topics and their application.</p> <p><i>Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.</i></p> | | | |

4

LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

| | |
|--------------------------|---|
| INSTRUCTIONS | This section contains information regarding: <ul style="list-style-type: none"> • Context of the assessment • List of required tools and equipment • List of consumables |
| 1. Context of Assessment | This task will be performed in real time. |

| 2. List of tools and equipment (For five students) | | |
|--|-------------------------|----------|
| S. No | Items | Quantity |
| 1 | Coveralls | |
| 2 | Safety helmet | |
| 3 | Hand gloves | |
| 4 | Safety shoes | |
| 5 | Splash goggles | |
| 6 | Apron | |
| 7 | Dust mask | |
| 8 | Combination spanner set | |
| 9 | Allen key set | |
| 10 | Hammer | |
| 11 | Files set | |
| 12 | Screw driver set | |
| 13 | Combination plier | |
| 14 | Nose plier | |
| 15 | socket set | |
| 16 | Impact wrench | |
| 17 | Pipe wrench | |
| 18 | Adjustable wrench | |
| 19 | Inspection mirror | |
| 20 | Measuring tape | |
| 21 | Scriber | |
| 22 | Hand Drill Machine | |
| 23 | Vibration meter | |
| 24 | Tachometer | |
| 25 | dB meter | |
| 26 | Socket set | |
| 27 | Sprit level 1' | |

| 3. List of consumables items (For five students) | | |
|--|--------------------------------------|----------|
| S. No | Items | Quantity |
| 1 | Cotton waste | |
| 2 | Drill bit (mason) set | |
| 3 | Drill bit (machine) set | |
| 4 | Steel nails as per job requirement | |
| 5 | Wooden screws as per job requirement | |
| 6 | Rawal plug as per job requirement | |
| 7 | Wooden plug as per job requirement | |



ASSESSMENT
MATERIAL

**EVIDENCE
GUIDE**

Qualification

Electronics Home
Appliances

CS Code:

Level: 2

Credit: 23

Version: 1

PERFORM REPAIR OF HOME APPLIANCE

CONTENTS

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgement Guide
4. List of required tools/equipment, material and context of assessment

**ASSESSMENT AND
ASSESSOR
DETAILS**

Competent Not Yet Competent

Assessment Re-Assessment

Assessor's Name: _____ Assessor's Code _____

Assessor's Signature _____ Date

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DD MM YYYY

**CANDIDATE
DETAILS**

Candidate's Name: _____
First Name Last Name

Father's Name _____

Institute Name and District _____

CNIC/BFORM#

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Registration Number issued by Assessment Body: _____

Gender Male Female Transgender

Candidate's Consent I agree to the time and date of the assessment and am aware of the requirements of the assessment. I fully understand my rights of appeal.

Candidate's Signature: _____

**ASSESSMENT
RESULTS
SUMMARY FORM**

You can use this coversheet as an *Assessment Results Summary Form*. Simply post a photocopy of this completed coversheet to NAVTTC

**NAVTTC OFFICE
ONLY**

1. DATE FORM RECEIVED:

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DD MM YYYY

1

ASSESSMENT SUMMARY & RECORD

| ACTIVITY | METHOD | | | DESIRED OUTCOMES | RESULT | |
|-------------------------------|---------|------|-------------|--|-----------|-------------------|
| | WRITTEN | ORAL | OBSERVATION | | COMPETENT | NOT YET COMPETENT |
| NATURE OF ACTIVITY | | | | DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PERFORM REPAIR OF HOME APPLIANCE | | |
| Practical Skill Demonstration | | | ✓ | <ul style="list-style-type: none"> Perform initial test run to determine repair requirements of appliance Dismantle appliance accordingly Diagnose fault of appliances Repair of appliances Assemble appliances using safe work practices | | |
| Knowledge Assessment | | ✓ | | <ul style="list-style-type: none"> Answer any questions your Assessor may have during the practical assessment | | |
| Other requirements | ✓ | | | <ul style="list-style-type: none"> NA | | |

2

CANDIDATE ASSESSMENT

Candidate's Name Father's Name

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform the following task in **four (4) hours** timeframe:

- Perform test run of home appliance as per industry standard.
- Dismantle appliance as per industry standard.
- Repair of washing machine for standard operation.
- Repair of microwave for standard operation.
- Repair electrical Iron for standard operation.
- Repair of vacuum cleaner for standard operation.
- Repair of fans for standard operation.
- Repair of emergency light for standard operation.
- Repair of toaster for standard operation.
- Repair of kitchen appliances for standard operation.
- Assemble appliance as per industry standard.

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Report to supervisor in case of any contingency after taking necessary actions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

| ACTIVITIES | CANDIDATE RESPONSE |
|---|--|
| <p>1. Complete practical task of performing repair of home appliance under observation by an assessor</p> | <p>During a practical assessment, under observation by an assessor, I will correctly:</p> <ul style="list-style-type: none"> • Perform test run of home appliance as per industry standard <ul style="list-style-type: none"> ✓ Check short circuit as per industry standard ✓ Connect to main for operation of appliance ✓ Perform test run as per job requirement ✓ Note parameters of appliances • Dismantle appliance as per industry standard <ul style="list-style-type: none"> ✓ Check isolation of appliance as per safety standard ✓ Use standard tools according to job requirement ✓ Tag wires of appliances/ accessories for re-connection • Diagnose fault of appliance as per industry standard <ul style="list-style-type: none"> ✓ Inspect physical condition of appliance ✓ Check electrical parts of appliance ✓ Check mechanical parts of appliance ✓ Check modules of appliance ✓ Check operating penal ✓ Tag faulty component/parts • Repair of washing machine <ul style="list-style-type: none"> ✓ Fix rotor set for standard operation ✓ Fix mechanical parts for standard operation ✓ Fix electrical parts for standard operation ✓ Adjust control accessories for standard operation ✓ Align accessories for standard operation ✓ Fix front/ control panel for standard operation |

| | |
|--|--|
| | <ul style="list-style-type: none"> ✓ Fix control module for standard operation ✓ Fix water leakage for standard operation ✓ Perform test run as per industry standard • Repair of microwave <ul style="list-style-type: none"> ✓ Fix safety fuse for standard operation ✓ Fix mechanical parts for standard operation ✓ Fix electrical parts for standard operation ✓ Adjust control accessories for standard operation ✓ Align accessories for standard operation ✓ Fix front/ control panel for standard operation ✓ Fix control module for standard operation ✓ Fix magnetron for standard operation ✓ Perform test run as per industry standard • Repair electrical Iron <ul style="list-style-type: none"> ✓ Fix de-scaling of surface for standard operation ✓ Fix nozzles for standard operation ✓ Fix thermostat for standard operation ✓ Fix electrical parts for standard operation ✓ Adjust control accessories for standard operation ✓ Perform test run as per industry standard • Repair of vacuum cleaner <ul style="list-style-type: none"> ✓ Clean filter for standard operation ✓ Fix housing for standard operation ✓ Fix electrical parts for standard operation ✓ Adjust control accessories for standard operation ✓ Perform test run as per industry standard • Repair of fans <ul style="list-style-type: none"> ✓ Fix motor bushes for standard operation ✓ Perform lubrication for standard operation ✓ Fix mechanical parts for standard operation ✓ Align fan blades for standard operation ✓ Align parts and accessories for standard operation ✓ Fix electrical parts for standard operation ✓ Fix control parts/ penal for standard operation ✓ Adjust control accessories for standard operation ✓ Perform test run as per industry standard • Repair of emergency light <ul style="list-style-type: none"> ✓ Fix rectification section for standard operation ✓ Fix switching section for standard operation ✓ Fix output section for standard operation ✓ Fix PCB for standard operation ✓ Adjust control accessories for standard operation ✓ Fix front/ control panel for standard operation ✓ Fix control module for standard operation ✓ Perform test run as per industry standard • Repair of toaster for standard operation <ul style="list-style-type: none"> ✓ Fix thermostat for standard operation ✓ Fix spring for standard operation ✓ Fix electrical parts for standard operation ✓ Fix mechanical parts for standard operation ✓ Fix control parts for standard operation ✓ Adjust control accessories for standard operation ✓ Align accessories for standard operation ✓ Perform test run as per industry standard • Repair of kitchen appliances for standard operation <ul style="list-style-type: none"> ✓ Fix carbon bushes for standard operation ✓ Fix leakage seals for standard operation ✓ Fix armature bushes for standard operation ✓ Fix mechanical faults for standard operation ✓ Fix electrical faults for standard operation ✓ Adjust control accessories for standard operation ✓ Align accessories for standard operation ✓ Fix front/ control panel for standard operation ✓ Perform test run as per industry standard |
|--|--|

| | |
|--|---|
| | <ul style="list-style-type: none"> • Assemble appliance as per industry standard <ul style="list-style-type: none"> ✓ Check standard tools according to job requirement ✓ Make internal connections as required job ✓ Assemble appliance as per industry standard ✓ Perform test run as per industry standard • General performance criteria: <ul style="list-style-type: none"> ✓ Follow health and safety procedure as per the requirements of given task ✓ Prepare work station as per the requirements of task ✓ Select tools/ equipment as per the requirements of task ✓ Report to supervisor in case of any contingency after taking necessary actions ✓ Complete the work by following sequence of operations ✓ Perform task(s) within standard timeframe |
| <p>2. Answer any questions your Assessor may have during the practical assessment</p> | <p>My answers to questions are correct and demonstrate my understanding of the topics and their application:</p> |

3

ASSESSOR JUDGEMENT GUIDE

| | |
|----------------------------------|--|
| INSTRUCTIONS FOR ASSESSOR | This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application. |
|----------------------------------|--|

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|---|-----|----|-------------------|
| 1. Complete practical task of performing repair of home appliance under observation by an assessor | During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks; | | | |
| Performing test run of home appliance as per industry standard | Checked short circuit as per industry standard | | | |
| | Connected to main for operation of appliance | | | |
| | Performed test run as per job requirement | | | |
| | Recorded parameters of appliances | | | |
| Dismantling appliance as per industry standard | Checked isolation of appliance as per safety standard | | | |
| | Used standard tools according to job requirement | | | |
| | Tagged wires of appliances/ accessories for re-connection | | | |
| Diagnosing fault of appliance as per industry standard | Inspected physical condition of appliance | | | |
| | Checked electrical parts of appliance | | | |
| | Checked mechanical parts of appliance | | | |
| | Checked modules of appliance | | | |
| | Checked operating panel | | | |
| | Tagged faulty component/parts | | | |
| Repairing of washing machine | Fixed rotor set for standard operation | | | |
| | Fixed mechanical parts for standard operation | | | |
| | Fixed electrical parts for standard operation | | | |
| | Adjusted control accessories for standard operation | | | |
| | Aligned accessories for standard operation | | | |
| | Fixed front/ control panel for standard operation | | | |
| | Fixed control module for standard operation | | | |
| | Fixed water leakage for standard operation | | | |
| | Performed test run as per industry standard | | | |
| Repairing of microwave for standard operation | Fixed safety fuse for standard operation | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|--|-----|----|-------------------|
| | Fixed mechanical parts for standard operation | | | |
| | Fixed electrical parts for standard operation | | | |
| | Adjusted control accessories for standard operation | | | |
| | Aligned accessories for standard operation | | | |
| | Fixed front/ control panel for standard operation | | | |
| | Fixed control module for standard operation | | | |
| | Fixed magnetron for standard operation | | | |
| | Performed test run as per industry standard | | | |
| Repair electrical Iron for standard operation | Fixed de-scaling of surface for standard operation | | | |
| | Fixed nozzles for standard operation | | | |
| | Fixed thermostat for standard operation | | | |
| | Fixed electrical parts for standard operation | | | |
| | Adjusted control accessories for standard operation | | | |
| | Performed test run as per industry standard | | | |
| Repair of vacuum cleaner for standard operation | Cleaned filter for standard operation | | | |
| | Fixed housing for standard operation | | | |
| | Fixed electrical parts for standard operation | | | |
| | Adjusted control accessories for standard operation | | | |
| | Performed test run as per industry standard | | | |
| Repair of fans for standard operation | Fixed motor bushes for standard operation | | | |
| | Preformed lubrication for standard operation | | | |
| | Fixed mechanical parts for standard operation | | | |
| | Aligned fan blades for standard operation | | | |
| | Aligned parts and accessories for standard operation | | | |
| | Fixed electrical parts for standard operation | | | |
| | Fixed control parts/ penal for standard operation | | | |
| | Adjusted control accessories for standard operation | | | |
| | Performed test run as per industry standard | | | |
| Repairing of emergency light | Fixed rectification section for standard operation | | | |
| | Fixed switching section for standard operation | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|--|--|-----|----|-------------------|
| | Fixed output section for standard operation | | | |
| | Fixed PCB for standard operation | | | |
| | Adjusted control accessories for standard operation | | | |
| | Fixed front/ control panel for standard operation | | | |
| | Fixed control module for standard operation | | | |
| | Performed test run as per industry standard | | | |
| Repairing of toaster for standard operation | Fixed thermostat for standard operation | | | |
| | Fixed spring for standard operation | | | |
| | Fixed electrical parts for standard operation | | | |
| | Fixed mechanical parts for standard operation | | | |
| | Fixed control parts for standard operation | | | |
| | Adjusted control accessories for standard operation | | | |
| | Aligned accessories for standard operation | | | |
| | Performed test run as per industry standard | | | |
| Repairing of kitchen appliances for standard operation | Fixed carbon bushes for standard operation | | | |
| | Fixed leakage seals for standard operation | | | |
| | Fixed armature bushes for standard operation | | | |
| | Fixed mechanical faults for standard operation | | | |
| | Fixed electrical faults for standard operation | | | |
| | Adjusted control accessories for standard operation | | | |
| | Aligned accessories for standard operation | | | |
| | Fixed front/ control panel for standard operation | | | |
| | Performed test run as per industry standard | | | |
| Assembling appliance as per industry standard | Checked standard tools according to job requirement | | | |
| | Made internal connections as required job | | | |
| | Assembled appliance as per industry standard | | | |
| | Performed test run as per industry standard | | | |
| | Performed test run as per job requirement | | | |
| General performance criteria | Followed health and safety procedure as per the requirements of given task | | | |
| | Prepared work station as per the requirements of task | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|---|-----|----|-------------------|
| | Selected tools/ equipment as per the requirements of task | | | |
| | Reported to supervisor in case of any contingency after taking necessary actions | | | |
| | Completed the work by following sequence of operations | | | |
| | Performed task(s) within standard timeframe | | | |
| 2. Answer any questions you may have during the practical assessment | <p>Candidate's answers to questions are correct and demonstrate understanding of the topics and their application.</p> <p><i>Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.</i></p> | | | |
| | | | | |

4

LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

| | |
|---------------------------------|--|
| INSTRUCTIONS | <p>This section contains information regarding:</p> <ul style="list-style-type: none"> Context of the assessment List of required tools and equipment List of consumables |
| 1. Context of Assessment | This task will be performed in real time. |

| 2. List of tools and equipment required (For five students) | | |
|---|---|----------|
| S. No | Items | Quantity |
| 1 | Coveralls | |
| 2 | Safety helmet | |
| 3 | Hand gloves | |
| 4 | Safety shoes | |
| 5 | Splash goggles | |
| 6 | Full face gas mask | |
| 7 | Apron (Acid suit) | |
| 8 | Dust mask | |
| 9 | Combination spanner set | |
| 10 | Allen key set | |
| 11 | Hammer | |
| 12 | Files set | |
| 13 | Screw driver set | |
| 14 | Combination plier | |
| 15 | Nose plier | |
| 16 | socket set | |
| 17 | Impact wrench | |
| 18 | Pipe wrench | |
| 19 | Adjustable wrench | |
| 20 | Inspection mirror | |
| 21 | Measuring tape | |
| 22 | Scriber | |
| 23 | Gauges (filler, universal, depth, go /not go, | |
| 24 | Vibration meter | |
| 25 | Tachometer | |
| 26 | dB meter | |

| 3. List of consumable items required (For five students) | | |
|--|-----------------------------|----------|
| S. No | Items | Quantity |
| 1 | Cotton waste | |
| 2 | Anti-corrosion spray | |
| 3 | Lapping paste (Amery paste) | |
| 4 | Wire brush | |
| 5 | Painting brush | |
| 6 | Disposable coverall | |
| 7 | Alignment shims | |
| 8 | Grease | |
| 9 | Kerosene oil | |



ASSESSMENT
MATERIAL

**EVIDENCE
GUIDE**

Qualification
Electronic Home
Appliances Technician
CS Code:
Level: 2
Credit: 15
Version: 1

**PERFORM REPLACEMENT COMPONENTS OF
HOME APPLIANCES**

CONTENTS

1. Assessment Summary and Record
2. Candidate Assessment
3. Assessor Judgement Guide
4. List of required tools/ equipment, material and context of assessment

**ASSESSMENT AND
ASSESSOR
DETAILS**

| | | | | | | | | | | | |
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| Competent <input type="checkbox"/> | Not Yet Competent <input type="checkbox"/> | | | | | | | | | | |
| Assessment <input type="checkbox"/> | Re-Assessment <input type="checkbox"/> | | | | | | | | | | |
| Assessor's Name: _____ Assessor's Code _____ | | | | | | | | | | | |
| Assessor's Signature _____ Date <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> DD MM YYYY | | | | | | | | | | | |
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**CANDIDATE
DETAILS**

Candidate's Name: _____
First Name Last Name

Father's Name _____

Institute Name and District _____

CNIC/BFORM#

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Registration Number issued by Assessment Body: _____

Gender Male Female Transgender

Candidate's Consent I agree to the time and date of the assessment and am aware of the requirements of the assessment. I fully understand my rights of appeal.

Candidate's Signature: _____

**ASSESSMENT
RESULTS
SUMMARY FORM**

You can use this coversheet as an *Assessment Results Summary Form*. Simply post a photocopy of this completed coversheet to NAVTTC

**NAVTTC OFFICE
ONLY**

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1

ASSESSMENT SUMMARY & RECORD

| ACTIVITY | METHOD | | | | DESIRED OUTCOMES | RESULT | |
|-------------------------------|---------|------|-----------|-------------|--|-----------|-------------------|
| | WRITTEN | ORAL | PORTFOLIO | OBSERVATION | | COMPETENT | NOT YET COMPETENT |
| NATURE OF ACTIVITY | | | | | DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: PERFORM REPLACEMENT COMPONENTS OF HOME APPLIANCES | | |
| Practical Skill Demonstration | | | | ✓ | <ul style="list-style-type: none"> Replace electrical or mechanical components Replace module of home appliances Re-assemble appliances | | |
| Knowledge Assessment | | ✓ | | | <ul style="list-style-type: none"> Answer any questions your Assessor may have during the practical assessment | | |
| Other Requirements | | | ✓ | | <ul style="list-style-type: none"> NA | | |

2

CANDIDATE ASSESSMENT

Candidate's Name:.....Father's Name

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform the following tasks within **three(3) hours**:

- Identify faulty component and dismantle appliance according to industry standard
- Repair of washing machine for standard operation
- Repair of microwave for standard operation
- Repair electrical Iron for standard operation
- Repair of vacuum cleaner for standard operation
- Repair of fans for standard operation
- Repair of emergency light for standard operation
- Repair of toaster for standard operation

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Report to supervisor in case of any contingency after taking necessary actions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

| ACTIVITIES | CANDIDATE RESPONSE |
|--|--|
| <p>1. Complete practical task of performing replacement components of home appliances under observation by an assessor</p> | <p>During a practical assessment, under observation by an assessor, I will correctly perform the following tasks:</p> <ul style="list-style-type: none"> • Dismantle electronic home appliance according to industry procedure <ul style="list-style-type: none"> ✓ Check isolation of appliance as per safety standard ✓ Use standard tools according to job requirement ✓ Tag wires of appliances/ accessories for correct re-connection • Replace electrical components, mechanical parts and module <ul style="list-style-type: none"> ✓ Remove faulty components accordingly ✓ Replace electrical component as per required specification ✓ Replace mechanical parts as per required specification ✓ Replace module as per required specification ✓ Adjust module, mechanical parts as per industry standard • Perform connection <ul style="list-style-type: none"> ✓ Connect electrical wires according to job requirement ✓ Perform insulation of wires as per industry standard • Assemble appliance <ul style="list-style-type: none"> ✓ Select standard tools according to job requirement ✓ Perform assembling of appliance as per industry standard ✓ Test appliance for correct operation • General performance criteria: <ul style="list-style-type: none"> ✓ Follow health and safety procedure as per the requirements of given task ✓ Prepare work station as per the requirements of task ✓ Select tools/ equipment as per the requirements of task ✓ Report to supervisor in case of any contingency after taking necessary actions ✓ Complete the work by following sequence of operations ✓ Perform task(s) within standard timeframe |

| | |
|---|---|
| 2. Answer any questions your Assessor may have during the practical assessment | My answers to questions are correct and demonstrate my understanding of the topics and their application: |
|---|---|

3

ASSESSOR JUDGEMENT GUIDE

INSTRUCTIONS FOR ASSESSOR

This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application.

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|--|---|-----|----|-------------------|
| 1. Complete practical task of performing replacement components of home appliances under observation by an assessor | During a practical assessment, under observation by an assessor, the candidate correctly carried out: | | | |
| Dismantling electronic home appliance according to industry procedure | Checked isolation of appliance as per safety standard | | | |
| | Used standard tools according to job requirement | | | |
| | Tagged wires of appliances/ accessories for correct re-connection | | | |
| | Removed faulty components | | | |
| | Replaced electrical component as per required specification | | | |
| | Replaced mechanical parts as per required specification | | | |
| | Replaced module as per required specification | | | |
| | Adjusted module, mechanical parts | | | |
| Performing connection | Connected electrical wires according to job requirement | | | |
| | Performed insulation of wires as per industry standard | | | |
| Assembling appliance | Selected standard tools according to job requirement | | | |
| | Performed assembling of appliance as per industry standard | | | |
| | Tested appliance for correct operation | | | |
| General performance criteria | Followed health and safety procedure as per the requirements of given task | | | |
| | Prepared work station as per the requirements of task | | | |
| | Selected tools/ equipment as per the requirements of task | | | |
| | Reported to supervisor in case of any contingency after taking necessary actions | | | |
| | Completed the work by following sequence of operations | | | |
| | Performed task(s) within standard timeframe | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|---|-----|----|-------------------|
| <p>2. Answer any questions you may have during the practical assessment</p> | <p>Candidate's answers to questions are correct and demonstrate understanding of the topics and their application.</p> <p><i>Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.</i></p> | | | |

4

LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

| | |
|---------------------------------|--|
| INSTRUCTIONS | <p>This section contains information regarding:</p> <ul style="list-style-type: none"> Context of the assessment List of required tools and equipment List of consumables |
| 1. Context of Assessment | This task will be performed in real time . |

| 2. List of tools and equipment (For five students) | | |
|--|-------------------------|----------|
| S. No | Items | Quantity |
| 1 | Coveralls | |
| 2 | Safety helmet | |
| 3 | Hand gloves | |
| 4 | Safety shoes | |
| 5 | Splash goggles | |
| 6 | Apron | |
| 7 | Dust mask | |
| 8 | Combination spanner set | |
| 9 | Allen key set | |
| 10 | Hammer | |
| 11 | Files set | |
| 12 | Screw driver set | |
| 13 | Combination plier | |
| 14 | Nose plier | |
| 15 | socket set | |
| 16 | Pipe wrench | |
| 17 | Adjustable wrench | |
| 18 | Inspection mirror | |
| 19 | Measuring tape | |
| 20 | Scriber | |
| 21 | Vibration meter | |
| 22 | Tachometer | |
| 23 | dB meter | |

| 3. List of consumable items (For five students) | | |
|---|-----------------------------|----------|
| S. No | Items | Quantity |
| 1 | Cotton waste | |
| 2 | Anti-corrosion spray | |
| 3 | Lapping paste (Amery paste) | |
| 4 | Wire brush | |
| 5 | Painting brush | |
| 6 | Disposable coverall | |
| 7 | Alignment shims | |
| 8 | Grease | |
| 9 | Kerosene oil | |



| | |
|---|---|
| ASSESSMENT MATERIAL EVIDENCE GUIDE | <h1>PERFORM PREVENTIVE MAINTENANCE</h1> |
| Qualification Electronic Home Appliances CS Code: Level: 2 Credit: 5 Version: 1 | |

| | |
|-----------------|---|
| CONTENTS | 1. Assessment Summary and Record 2. Candidate Assessment 3. Assessor Judgement Guide 4. List of required tools/equipment, material and context of assessment |
|-----------------|---|

| | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|------|--|--|--|----|----|--|--|--|--|--|--|
| ASSESSMENT AND ASSESSOR DETAILS | Competent <input type="checkbox"/> Not Yet Competent <input type="checkbox"/> | | | | | | | | | | | | | | | | | | |
| | Assessment <input type="checkbox"/> Re-Assessment <input type="checkbox"/> | | | | | | | | | | | | | | | | | | |
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| CANDIDATE DETAILS | Candidate's Name: _____ <small style="display: flex; justify-content: space-between; width: 100%;"> First Name Last Name </small> | | | | | | | | | | | | | | | | | | | |
| | Father's Name _____ | | | | | | | | | | | | | | | | | | | |
| | Institute Name and District _____ | | | | | | | | | | | | | | | | | | | |
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| | Registration Number issued by Assessment Body: _____ | | | | | | | | | | | | | | | | | | | |
| Gender Male <input type="checkbox"/> Female <input type="checkbox"/> Transgender <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | |
| Candidate's Consent: I agree to the time and date of the assessment and am aware of the requirements of the assessment. I fully understand my rights of appeal. | | | | | | | | | | | | | | | | | | | | |
| Candidate's Signature: _____ | | | | | | | | | | | | | | | | | | | | |

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| ASSESSMENT RESULTS SUMMARY FORM | You can use this coversheet as an <i>Assessment Results Summary Form</i> . Simply post a photocopy of this completed coversheet to NAVTTC |
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1

ASSESSMENT SUMMARY & RECORD

| ACTIVITY | METHOD | | | DESIRED OUTCOMES | RESULT | |
|-------------------------------|---------|------|-------------|--|-----------|-------------------|
| | WRITTEN | ORAL | OBSERVATION | | COMPETENT | NOT YET COMPETENT |
| NATURE OF ACTIVITY | | | | DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF PERFORM PREVENTIVE MAINTENANCE | | |
| Practical Skill Demonstration | | | ✓ | <ul style="list-style-type: none"> Lubricate mechanical parts Align appliance as per industry standard Check parts life cycle | | |
| Knowledge Assessment | | ✓ | | <ul style="list-style-type: none"> Answer any questions your Assessor may have during the practical assessment | | |
| Other Requirements | ✓ | | | <ul style="list-style-type: none"> NA | | |

2

CANDIDATE ASSESSMENT

Candidate's Name Father's Name

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to perform the following task in **three (3) hours**:

- Inspect equipment
- Clean equipment
- Lubricate mechanical parts
- Align equipment
- Ensure parts life cycle
- Demonstrate equipment

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Report to supervisor in case of any contingency after taking necessary actions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

| ACTIVITIES | CANDIDATE RESPONSE |
|--|---|
| <p>1. Complete practical task of Preventive Maintenance under observation by an assessor</p> | <p>During a practical assessment, under observation by an assessor, I will correctly perform the following task:</p> <ul style="list-style-type: none"> • Inspect equipment and fill checklist <ul style="list-style-type: none"> ✓ Physical condition ✓ Electrical components ✓ Mechanical parts • Clean equipment according to industry standard <ul style="list-style-type: none"> ✓ Arrange cleaning agent ✓ Clean physical component ✓ Clean electrical connection • Lubricate mechanical parts for standard operation <ul style="list-style-type: none"> ✓ Arrange lubrication agent ✓ Apply lubrication accordingly • Align equipment as per industry standard <ul style="list-style-type: none"> ✓ Arrange alignment tools and equipment ✓ Perform alignment of component/s ✓ Check noise level • Demonstrate equipment standard operation <ul style="list-style-type: none"> ✓ Arrange power source, tools and equipment ✓ Attach accessories accordingly • General performance criteria: <ul style="list-style-type: none"> ✓ Follow health and safety procedure as per the requirements of given task ✓ Prepare work station as per the requirements of task ✓ Select tools/ equipment as per the requirements of task ✓ Report to supervisor in case of any contingency after taking necessary actions ✓ Complete the work by following sequence of operations ✓ Perform task(s) within standard timeframe |

| | |
|---|---|
| 2. Answer any questions your Assessor may have during the practical assessment | My answers to questions are correct and demonstrate my understanding of the topics and their application: |
|---|---|

3

ASSESSOR JUDGEMENT GUIDE

| | |
|---------------------------------|---|
| INSTRUCTION FOR ASSESSOR | This section contains minimum evidence requirement. Oral questioning may be used to clarify candidate understanding of the topic and its application. |
|---------------------------------|---|

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|---|-----|----|-------------------|
| 1. Completes practical task of Preventive Maintenance under observation by an assessor | During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks. | | | |
| Inspecting equipment and fill checklist | Inspected physical condition | | | |
| | Inspected electrical components | | | |
| | Inspected mechanical parts | | | |
| Cleaning equipment to industry standard | Arranged cleaning agent | | | |
| | Cleaned physical component | | | |
| | Cleaned electrical connection | | | |
| Lubricating mechanical parts | Arranged lubrication agent | | | |
| | Applied lubrication accordingly | | | |
| Aligning equipment | Arranged alignment tools and equipment | | | |
| | Performed alignment of component/s as per industry standard | | | |
| | Checked noise level as per industry standard | | | |
| Demonstrating equipment standard operation | Arranged power source, tools and equipment | | | |
| | Attached accessories accordingly | | | |
| General performance criteria | Followed health and safety procedure as per the requirements of given task | | | |
| | Prepared work station as per the requirements of task | | | |
| | Selected tools/ equipment as per the requirements of task | | | |
| | Reported to supervisor in case of any contingency after taking necessary actions | | | |
| | Completed the work by following sequence of operations | | | |
| | Performed task(s) within standard timeframe | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|---|---|-----|----|-------------------|
| <p>2. Answer any questions you may have during the practical assessment</p> | <p>Candidate's answers to questions are correct and demonstrate understanding of the topics and their application.</p> <p><i>Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.</i></p> | | | |

4

LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

| | |
|---------------------------------|--|
| INSTRUCTIONS | <p>This section contains information regarding:</p> <ul style="list-style-type: none"> • Context of the assessment • List of required tools and equipment • List of consumables |
| 1. Context of Assessment | This task will be performed in real time. |

| 2. List of tools and equipment (for five students) | | |
|--|---|----------|
| S. No | Items | Quantity |
| 1 | Coveralls | |
| 2 | Safety helmet | |
| 3 | Hand gloves | |
| 4 | Safety shoes | |
| 5 | Splash goggles | |
| 6 | Full face gas mask | |
| 7 | Apron (Acid suit) | |
| 8 | Dust mask | |
| 9 | Combination spanner set | |
| 10 | Allen key set | |
| 11 | Hammer | |
| 12 | Files set | |
| 13 | Screw driver set | |
| 14 | Combination plier | |
| 15 | Nose plier | |
| 16 | socket set | |
| 17 | Impact wrench | |
| 18 | Pipe wrench | |
| 19 | Adjustable wrench | |
| 20 | Inspection mirror | |
| 21 | Measuring tape | |
| 22 | Scriber | |
| 23 | Gauges (filler, universal, depth, go /not go, | |
| 24 | Vibration meter | |
| 25 | Tachometer | |
| 26 | dB meter | |

| 3. List of consumable items (for five students) | | |
|---|-----------------------------|----------|
| S. No | Items | Quantity |
| 1 | Cotton waste | |
| 2 | Anti-corrosion spray | |
| 3 | Lapping paste (Amery paste) | |
| 4 | Wire brush | |
| 5 | Painting brush | |
| 6 | Disposable coverall | |
| 7 | Alignment shims | |
| 8 | Grease | |
| 9 | Kerosene oil | |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|-------------------------------------|--|------------------------|-----------------------|----------------------------|--|--|----|----|----|----|--|--|------|------|------|----|----|---|--|---|--|------|--|--|--|--|--|--|----|----|----|----|--|--|------|--|------|--|--|--|--|
| ASSESSMENT MATERIAL EVIDENCE GUIDE | <h1 style="margin: 0;">ELECTRONIC HOME APPLIANCES TECHNICIAN</h1> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Qualification Electronic Home Appliance Technician Qualification Code: Level: 2 Credit: 80 Version: 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONTENTS | 1. Assessment Summary and Record 2. Candidate Assessment 3. Assessor Judgement Guide 4. List of required tools/equipment, material and context of assessment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ASSESSMENT RESULTS SUMMARY FORM | You can use this coversheet as an <i>Assessment Results Summary Form</i> . Simply post a photocopy of this completed coversheet to NAVTTCC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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1

ASSESSMENT SUMMARY & RECORD

| ACTIVITY | WRITTEN | METHOD | | | DESIRED OUTCOMES | RESULT | |
|-------------------------------|---------|--------|-----------|-------------|--|-----------|-------------------|
| | | ORAL | PORTFOLIO | OBSERVATION | | COMPETENT | NOT YET COMPETENT |
| NATURE OF ACTIVITY | | | | | DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF THE QUALIFICATION; SERVICING ELECTRONIC HOME APPLIANCES | | |
| Practical Skill Demonstration | | | | ✓ | <ul style="list-style-type: none"> • Apply Occupational Health and Safety • Perform basic installation of electronic home appliances • Repair home appliance • Perform replacement components of home appliances • Perform preventive maintenance | | |
| Knowledge Assessment | | ✓ | | | <ul style="list-style-type: none"> • Answer any questions your Assessor may have during the practical assessment | | |
| Other Requirements | | | ✓ | | <ul style="list-style-type: none"> • Complete all course assignments | | |

2

CANDIDATE ASSESSMENT

Candidate's Name Father's Name

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this Qualification you are required to perform the following task in **five(5)hours** timeframe :

- Service electronics home appliances including :
 - ✓ Service the faulty washing machine for standard operation
 - ✓ Service the faulty microwave oven for standard operation
 - ✓ Install Electronics home appliances

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable) by the candidate in order to meet this standard.

- ✓ Follow health and safety procedure as per the requirements of given task
- ✓ Prepare work station as per the requirements of task
- ✓ Select tools/ equipment as per the requirements of task
- ✓ Report to supervisor in case of any contingency after taking necessary actions
- ✓ Complete the work by following sequence of operations
- ✓ Perform task(s) within standard timeframe

| ACTIVITIES | CANDIDATE RESPONSE |
|--|--|
| <p>1. Complete practical task of servicing electronic home appliance under observation by an assessor</p> | <p>During a practical assessment, under observation by an assessor, I will correctly:</p> <ul style="list-style-type: none"> • Service the faulty washing machine for standard operation <ul style="list-style-type: none"> ✓ Prepare the unit and required materials, tools equipment and workplace properly for installation and service ✓ Verify repair/maintenance history ✓ Conduct complete check-up of product and systems, and identifies, verifies and documents defects against customer description ✓ Test devices in accordance with standard procedures ✓ Undertake final inspection ✓ Respond to unplanned events or conditions ✓ Clean and clear work site of all debris ✓ Identify system defects/faults using appropriate tools and equipment ✓ Diagnose faults and defects ✓ Check and isolate circuits ✓ Check control settings/adjustments ✓ Replace defective parts/components with identical or recommended appropriate equivalent ratings ✓ Maintain/Repair consumer electronic products ✓ Re-assemble and test repaired consumer electronic product ✓ Dispose waste materials ✓ Apply safety rules and procedures • Service the faulty microwave oven for standard operation <ul style="list-style-type: none"> ✓ Prepare the unit and required materials, tools equipment and workplace properly for installation and service ✓ Verify repair/maintenance history ✓ Conduct complete check-up of product and systems, and identifies, verifies and documents defects against customer description ✓ Test devices in accordance with standard procedures ✓ Undertake final inspection ✓ Respond to unplanned events or conditions ✓ Clean and clear work site of all debris |

| | |
|---|---|
| | <ul style="list-style-type: none"> ✓ Identify system defects/faults using appropriate tools and equipment ✓ Diagnose faults and defects ✓ Check and isolate circuits ✓ Check control settings/adjustments ✓ Replace defective parts/components with identical or recommended appropriate equivalent ratings ✓ Maintain/Repair consumer electronic products ✓ Re-assemble and test repaired consumer electronic product ✓ Dispose waste materials ✓ Apply safety rules and procedures • Install electronics home appliance <ul style="list-style-type: none"> ✓ Obtain and clarify work instructions ✓ Identify, prepare and obtain parts and components needed ✓ Prepare and check required materials, tools and equipment ✓ Prepare electronic components for assembly ✓ Verify PCB layout in conformity with the schematic diagram ✓ Prepare/Make printed circuit board modules ✓ Clean PCB based on standard procedures ✓ Test and visually inspect the functionality of the PCB ✓ Mount and solder electronic components ✓ Apply soldering/de-soldering techniques and procedures ✓ Check soldered products ✓ Assemble electronic components ✓ Integrate modules and accessories ✓ Perform assembly procedures of electronic products ✓ Test and inspect assembled electronic products ✓ Subject finished products to final visual/sensory inspection and testing ✓ Apply safety rules and procedures • General performance criteria: <ul style="list-style-type: none"> ✓ Follow health and safety procedure as per the requirements of given task ✓ Prepare work station as per the requirements of task ✓ Select tools/ equipment as per the requirements of task ✓ Report to supervisor in case of any contingency after taking necessary actions ✓ Complete the work by following sequence of operations ✓ Perform task(s) within standard timeframe |
| 2. Other requirements | Completed all course assignments |
| 3. Answer any questions your Assessor may have during the practical assessment | My answers to questions are correct and demonstrate my understanding of the topics and their application: |

3

ASSESSOR JUDGEMENT GUIDE

| INSTRUCTION FOR ASSESSOR | This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application. | | | |
|--|--|-----|----|-------------------|
| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
| 1. Completes practical task of servicing electronic home appliances under observation by an assessor | During a practical assessment, under observation by an assessor, the candidate correctly carried out: | | | |
| Service the faulty washing machine for standard operation | Prepare the unit and required materials, tools equipment and workplace properly for installation and service Verify repair/maintenance history Conduct complete check-up of product and systems, and identifies, verifies and documents defects against customer description Test devices in accordance with standard procedures Undertake final inspection Respond to unplanned events or conditions Clean and clear work site of all debris Identify system defects/faults using appropriate tools and equipment Diagnose faults and defects Check and isolate circuits Check control settings/adjustments Replace defective parts/components with identical or recommended appropriate equivalent ratings Maintain/Repair consumer electronic products Re-assemble and test repaired consumer electronic product Dispose waste materials Apply safety rules and procedures | | | |
| Serviced the faulty Microwave oven for standard operation | Prepare the unit and required materials, tools equipment and workplace properly for installation and service Verify repair/maintenance history Conduct complete check-up of product and systems, and identifies, verifies and documents defects against customer description | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|--|---|-----|----|-------------------|
| | Test devices in accordance with standard procedures | | | |
| | Undertake final inspection | | | |
| | Respond to unplanned events or conditions | | | |
| | Clean and clear work site of all debris | | | |
| | Identify system defects/faults using appropriate tools and equipment | | | |
| | Diagnose faults and defects | | | |
| | Check and isolate circuits | | | |
| | Check control settings/adjustments | | | |
| | Replace defective parts/components with identical or recommended appropriate equivalent ratings | | | |
| | Maintain/Repair consumer electronic products | | | |
| | Re-assemble and test repaired consumer electronic product | | | |
| | Dispose waste materials | | | |
| | Apply safety rules and procedures | | | |
| Install electronics home appliance | Obtain and clarify work instructions | | | |
| | Identify, prepare and obtain parts and components needed | | | |
| | *Prepare and check required materials, tools and equipment | | | |
| | Prepare electronic components for assembly | | | |
| | Verify PCB layout in conformity with the schematic diagram | | | |
| | Prepare/Make printed circuit board modules | | | |
| | Clean PCB based on standard procedures | | | |
| | Test and visually inspect the functionality of the PCB | | | |
| | Mount and solder electronic components | | | |
| | Apply soldering/de-soldering techniques and procedures | | | |
| | Check soldered products | | | |
| | Assemble electronic components | | | |
| | Integrate modules and accessories | | | |
| | Perform assembly procedures of electronic products | | | |
| | Test and inspect assembled electronic products | | | |
| Subject finished products to final visual/sensory inspection and testing | | | | |

| ACTIVITIES | MINIMUM EVIDENCE REQUIRED | YES | NO | ASSESSOR COMMENTS |
|--|--|-----|----|-------------------|
| | Apply safety rules and procedures | | | |
| General performance criteria | Followed health and safety procedure as per the requirements of given task | | | |
| | Prepared work station as per the requirements of task | | | |
| | Selected tools/ equipment as per the requirements of task | | | |
| | Reported to supervisor in case of any contingency after taking necessary actions | | | |
| | Completed the work by following sequence of operations | | | |
| | Performed task(s) within standard timeframe | | | |
| 2. Other Requirements | Completed all course assignments in the form of portfolio | | | |
| 3. Answer any questions their Assessor may have during the practical assessment | <p>Candidate's answers to questions are correct and demonstrate understanding of the topics and their application.</p> <p>Assessor to document below all questions asked, if any, and the answers:</p> | | | |

4

LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

| | |
|---------------------------------|---|
| INSTRUCTIONS | This section contains information regarding: <ul style="list-style-type: none"> Context of the assessment List of required tools and equipment List of consumables |
| 1. Context of Assessment | This task will be performed in real time . |

| 2. List of tools and equipment required (For five students) | | |
|--|---|----------|
| S. No | Name of Items (tools and equipment) | Quantity |
| 1 | Coveralls | |
| 2 | Safety helmet | |
| 3 | Hand gloves | |
| 4 | Safety shoes | |
| 5 | Splash goggles | |
| 6 | Full face gas mask | |
| 7 | Apron (Acid suit) | |
| 8 | Dust mask | |
| 9 | Combination spanner set | |
| 10 | Allen key set | |
| 11 | Hammer | |
| 12 | Files set | |
| 13 | Screw driver set | |
| 14 | Combination plier | |
| 15 | Nose plier | |
| 16 | socket set | |
| 17 | Impact wrench | |
| 18 | Pipe wrench | |
| 19 | Adjustable wrench | |
| 20 | Inspection mirror | |
| 21 | Measuring tape | |
| 22 | Scriber | |
| 23 | Gauges (filler, universal, depth, go /not go, | |
| 24 | Vibration meter | |
| 25 | Tachometer | |
| 26 | dB meter | |

| 3. List of consumable items required (For five students) | | |
|---|-----------------------------|----------|
| S. No | Items | Quantity |
| 1 | Cotton waste | |
| 2 | Anti-corrosion spray | |
| 3 | Lapping paste (Amery paste) | |
| 4 | Wire brush | |
| 5 | Painting brush | |
| 6 | Disposable coverall | |
| 7 | Alignment shims | |
| 8 | Grease | |
| 9 | Kerosene oil | |

