









Mobile Phone Hardware Repair Technician

QP Code: ELE/Q8104

Version: 3.0

NSQF Level: 4

Electronics Sector Skills Council of India || 155, 2nd Floor, ESC House Okhla Industrial Area-Phase 3 New Delhi- 110020 || email:ceo@essc-india.org







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ELE/Q8104: Mobile Phone Hardware Repair Technician

Brief Job Description

The individual at work is responsible for rectifying faults in the mobile phone brought in by the customer. The individual receives the faulty mobile phone, diagnoses the problems, performs front end or hardware level repair as required, resolves software issues and ensures effective functioning before delivering back to customer.

Personal Attributes

The job requires the individual to have attention to details, patience, ability to listen, steady hands, logical thinking and customer orientation. The individual must work on desk with different types of equipment.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

- 1. ELE/N8104: Interact with customer and perform front end repair
- 2. ELE/N8107: Repair and rectify the faults in mobile phone
- 3. ELE/N1002: Apply health and safety practices at the workplace
- 4. DGT/VSQ/N0102: Employability Skills (60 Hours)

Qualification Pack (QP) Parameters

| Sector | Electronics |
|-------------------------------|--------------------------------|
| Sub-Sector | Communication and Broadcasting |
| Occupation | After Sales Service |
| Country | India |
| NSQF Level | 4 |
| Credits | 20 |
| Aligned to NCO/ISCO/ISIC Code | NCO-2015/7422.2301 |









| Minimum Educational Qualification & Experience | 8th grade pass with 2 years of NTC (plus 2 year of NAC/relevant experience) OR 10th grade pass (plus 2 year of NTC/NAC/relevant experience) OR 12th Class OR Certificate-NSQF (level 3 Maintenance Technician) with 2 Years of experience |
|---|--|
| Minimum Level of Education for Training in School | 8th Class |
| Pre-Requisite License or Training | NA |
| Minimum Job Entry Age | 18 Years |
| Last Reviewed On | NA |
| Next Review Date | 31/08/2025 |
| NSQC Approval Date | 31/03/2022 |
| Version | 3.0 |
| Reference code on NQR | 2022/EHW/ESSC/06674 |
| NQR Version | 1.0 |

Remarks:

NA







ELE/N8104: Interact with customer and perform front end repair

Description

This OS unit is about interacting with the customers and their customer requirements or problems faced in the mobile phone and performing front end repair where disassembling of hardware is not required

Elements and Performance Criteria

Engaging with customers

To be competent, the user/individual on the job must be able to:

- PC1. receive the customers and greet them as per companys norms
- PC2. follow behavioural etiquettes while interacting with customers
- **PC3.** ensure the customers are comfortable in the store
- **PC4.** communicate in the language which the customers are comfortable with
- PC5. understand the profile of the customers and offer service
- PC6. inform about repair charges and warranty applicable

Understanding the complaint

To be competent, the user/individual on the job must be able to:

- **PC7.** interact with customers to understand the customers purpose of visit such as repair of phone, purchase of accessories, software upload, collection of repaired phone
- **PC8.** listen to customers and understand the customer level complaint such as display not working, not switching on
- **PC9.** interrogate the customers to assess the cause of problem such as physical damage, uploading of any unauthorised software or application
- **PC10.** decide on the action to be performed, i.e., front end repair or hardware level repar is required
- PC11. inform customers about the time taken and estimated cost for hardware level repair
- PC12. provide document to customers for collecting the device after repair

Documenting on computer

To be competent, the user/individual on the job must be able to:

- **PC13.** use the system to identify the warranty coverage of the mobile phone and other terms and conditions
- **PC14.** understand the customer relationship management policy of the mobile brand and inform customers about them
- **PC15.** log into customer portal and enter the details of the customer and other details such as phone model, complaints, warranty coverage
- **PC16.** understand and use the interactive ERP system of the company and enter appropriate details
- **PC17.** use the system to prepare invoice, stock management, order placement, accessories availability, etc.

Performing front end repair

To be competent, the user/individual on the job must be able to:

PC18. Identify problem and decide the action to be taken









- **PC19.** upload only licensed and brand approved applications as per customer requirement using system
- **PC20.** understand the application and software compatability with the mobile phone and suggest to customers accordingly
- **PC21.** check the accessories and perform a demo with the customer to ensure their functionality (chargers, SD card, etc)
- **PC22.** open the panel of the mobile phone without damaging them
- **PC23.** replace the parts such as battery and clean the inner parts of the phone
- **PC24.** ensure the functionality of the replaced part
- PC25. provide necessary details on the warranty, terms and conditions of the replaced parts
- **PC26.** educate customers on effective usage of mobile phone to save battery and to avoid any repeat problem

Interacting with superior and meeting target

To be competent, the user/individual on the job must be able to:

- PC27. understand the work requirement from superior, periodically
- PC28. report to superior on the work completed
- PC29. seek technical assistance from superior whenever required
- **PC30.** document the work completed on the company ERP software for tracking and future references

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1. companys policies on: incentives, delivery standards, and personnel management
- **KU2.** companys sales and after sales support policy
- KU3. importance of the individuals role in the workflow
- KU4. reporting structure
- KU5. companys policy on products warranty and other terms and conditions
- KU6. companys line of business and product portfolio
- KU7. companys service level agreement (SLA) with the brand
- KU8. basic electronics involved in the hardware
- KU9. operate various models of moilephone
- KU10. features of mobile phone and their purpose
- **KU11.** different types of mobile phone and their model specifications
- **KU12.** how to document the spares movement note and capture all the action performed
- KU13. different accessories available for mobile phones and their purpose
- KU14. software and applications related to mobile phone
- KU15. procedures of replacing accessories such as battery, SD card
- KU16. software and applications available in the mobile phone market, their usage and purpose
- **KU17.** licensed and authorised software compatable for mobile phones and the downloading procedure







- KU18. specifications of accessories such as chargers, battery
- **KU19.** service level agreement with the brand on parameters such as turn around time (TAT), repair procedure, warranty
- KU20. companys ERP system and operational procedure
- KU21. safety rules, policies and procedures
- **KU22.** quality standards to be followed

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1. prepare complaints note with customer details, issues faced, phone details
- GS2. note customer complaints and solution provided
- GS3. prepare invoice with appropriate details
- GS4. to share work load as required
- GS5. to achieve the targets given on service
- GS6. how to develop a rapport with customers
- GS7. how to listen carefully and interpret their requirement
- GS8. how to suggest customer on possible solutions
- **GS9.** how to seek inputs from customers at assess the problems
- GS10. how to put the customer at ease and suggest solutions
- GS11. how to communicate in local language
- **GS12.** how to educate and inform customer about contractual issues such as warranty, cost of service and module or accessories replacement
- GS13. how to educate on precautions to be taken for effective uage of mobile phone
- GS14. importance of personal grooming
- **GS15.** significance of etiquette such as maintaining the appropriate physical distance with customer during conversation
- GS16. importance of being patient and courteous with all types of customers
- GS17. being polite and courteous under all circumstances
- **GS18.** how to operate computer and laptop with ease
- **GS19.** software and applications related to mobile phone with its features and purpose
- GS20. how to download software and application from companys website and from cloud
- **GS21.** how to download mobile phone related document from internet such as model specification ,repair manual







Assessment Criteria

| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|--|-----------------|--------------------|------------------|---------------|
| Engaging with customers | 8 | 12 | - | - |
| PC1. receive the customers and greet them as per companys norms | 1 | 2 | - | - |
| PC2. follow behavioural etiquettes while interacting with customers | 2 | 2 | - | - |
| PC3. ensure the customers are comfortable in the store | 2 | 2 | - | - |
| PC4. communicate in the language which the customers are comfortable with | 1 | 2 | - | - |
| PC5. understand the profile of the customers and offer service | 1 | 2 | - | - |
| PC6. inform about repair charges and warranty applicable | 1 | 2 | - | - |
| Understanding the complaint | 6 | 14 | - | - |
| PC7. interact with customers to understand the customers purpose of visit such as repair of phone, purchase of accessories, software upload, collection of repaired phone | 1 | 2 | - | - |
| PC8. listen to customers and understand the customer level complaint such as display not working, not switching on | 1 | 3 | - | - |
| PC9. interrogate the customers to assess the cause of problem such as physical damage, uploading of any unauthorised software or application | 1 | 2 | - | - |
| PC10. decide on the action to be performed, i.e., front end repair or hardware level repar is required | 1 | 3 | - | - |
| PC11. inform customers about the time taken and estimated cost for hardware level repair | 1 | 2 | _ | - |
| PC12. provide document to customers for collecting the device after repair | 1 | 2 | _ | - |









| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|--|-----------------|--------------------|------------------|---------------|
| Documenting on computer | 9 | 13 | - | - |
| PC13. use the system to identify the warranty coverage of the mobile phone and other terms and conditions | 2 | 3 | - | - |
| PC14. understand the customer relationship management policy of the mobile brand and inform customers about them | 2 | 3 | - | - |
| PC15. log into customer portal and enter the details of the customer and other details such as phone model, complaints, warranty coverage | 2 | 3 | - | - |
| PC16. understand and use the interactive ERP system of the company and enter appropriate details | 2 | 3 | - | - |
| PC17. use the system to prepare invoice, stock management, order placement, accessories availability, etc. | 1 | 1 | - | - |
| Performing front end repair | 9 | 9 | - | - |
| PC18. Identify problem and decide the action to be taken | 1 | 1 | - | - |
| PC19. upload only licensed and brand approved applications as per customer requirement using system | 1 | 1 | - | - |
| PC20. understand the application and software compatability with the mobile phone and suggest to customers accordingly | 1 | 1 | - | - |
| PC21. check the accessories and perform a demo with the customer to ensure their functionality (chargers, SD card, etc) | 1 | 1 | - | - |
| PC22. open the panel of the mobile phone without damaging them | 1 | 1 | - | - |
| PC23. replace the parts such as battery and clean the inner parts of the phone | 1 | 1 | - | - |
| PC24. ensure the functionality of the replaced part | 1 | 1 | - | - |









| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|-----------------|--------------------|------------------|---------------|
| PC25. provide necessary details on the warranty, terms and conditions of the replaced parts | 1 | 1 | - | - |
| PC26. educate customers on effective usage of mobile phone to save battery and to avoid any repeat problem | 1 | 1 | - | - |
| Interacting with superior and meeting target | 8 | 12 | - | - |
| PC27. understand the work requirement from superior, periodically | 2 | 3 | - | - |
| PC28. report to superior on the work completed | 2 | 3 | - | - |
| PC29. seek technical assistance from superior whenever required | 2 | 3 | - | - |
| PC30. document the work completed on the company ERP software for tracking and future references | 2 | 3 | - | - |
| NOS Total | 40 | 60 | - | - |







National Occupational Standards (NOS) Parameters

| NOS Code | ELE/N8104 |
|---------------------|---|
| NOS Name | Interact with customer and perform front end repair |
| Sector | Electronics |
| Sub-Sector | Communication and Broadcasting |
| Occupation | AFTER SALES SERVICE |
| NSQF Level | 4 |
| Credits | TBD |
| Version | 1.0 |
| Last Reviewed Date | 31/03/2022 |
| Next Review Date | 31/08/2025 |
| NSQC Clearance Date | 31/03/2022 |







ELE/N8107: Repair and rectify the faults in mobile phone

Description

This OS unit is about repairing the faulty module in the hardware and checking for effective functioning. Also, software issues are also checked and rectified.

Elements and Performance Criteria

Following standard repair procedure

To be competent, the user/individual on the job must be able to:

- **PC1.** follow the standard procedure as documented by the mobile phone brand for each model
- **PC2.** take anti static precautions before work and wear ESD wrist straps or aprons
- **PC3.** follow standard operating procedure while handling hardware modules such as handling PCB with ESD standards
- **PC4.** use recommended tools for specific operation suggested by the brand
- **PC5.** maintain zero-material defect during material handling by following standard operating procedure

Assembling and disassembling the mobile phone

To be competent, the user/individual on the job must be able to:

- PC6. open the outer panel of the mobile phone using metal / plastic case opening tools
- **PC7.** use the brand recommended screwdrivers to remove the screws to open the inner casing
- **PC8.** locate the connectors and release them to remove the motherboard from the device
- PC9. use hot air gun and other devices to remove the LCD screen from the pane
- PC10. follow similar process and use appropriate tools to assemble the mobile phone

Diagnosing the problem

To be competent, the user/individual on the job must be able to:

- PC11. understand the customer level complaint and confirm the issue
- PC12. take preventive measures and identify if there are any other issues in the mobile phone
- **PC13.** use the self diagnostic tools (similar to power on self test (POST) card) to perform standard diagnosis process and ensure functionality of different parts of the device
- **PC14.** follow the standard diagnostic procedure as documented by the mobile phone brand for each model
- **PC15.** check the recently installed application or software and verify the compatability of the software with the mobile phone

Fixing the software

To be competent, the user/individual on the job must be able to:

- **PC16.** check the recently installed application or software and verify the compatability of the software with the mobile phone
- PC17. uninstall the applications that is not compatable or creating issues in the mobile phone
- **PC18.** install the licensed and authorised softwares to resolve issues and suiting the customers requirement

Repairing the component or module









To be competent, the user/individual on the job must be able to:

- PC19. understand the scope of component level of repair as suggested by the brand
- PC20. estimate the cost of repair and verify if it is with in Beyond Economic Repair (BER)
- **PC21.** heat the singled out component using hot air gun to melt the solder joints and remove from PCB
- PC22. clean the board by melting the old solder and removing
- PC23. place the new component precisely on the board at specified location
- PC24. solder the component on the PCB using soldering stations
- PC25. ensure the soldering is proper and the component is fixed as per the specification
- **PC26.** operate automated BGA (ball grid array) work station to precisely remove the chip from the board and repair them
- **PC27.** perform reballing function by dismantling, heating the chip to be removed from the board, remove the solder remains, put new solder balls, place the chip and solder them with the PCB
- PC28. check for functioning of the hardware after repairing
- PC29. ensure that there is no damage of PCB while removal and fixing of SMD components
- **PC30.** ensure other components are not damaged while using hot air gun for removal of a component which could cause damage
- **PC31.** ensure adequate soldering for fixing the component and no further rework is required

Replacing faulty component

- To be competent, the user/individual on the job must be able to:
- PC32. receive spare module / component from stores or OEM
- PC33. identify and decide on replacing the module or component as the appropriate solution
- **PC34.** take adequate measures and follow procedures when replacing expensive or delicate components such as LCD
- **PC35.** ensure that cost of replacing is justified as the repair cost is beyond economic repair (BER)
- **PC36.** ensure that replaced module or component is working and no further rework is required

Using equipment

To be competent, the user/individual on the job must be able to:

- PC37. identify and use appropriate tools and manuals for repairing the specific issue
- PC38. prevent any accidents while handling hazardous tools
- PC39. achieve results using appropriate tools for specific rework activity
- **PC40.** maintain zero-material defect during material handling by following standard operating procedure for tools handling

Seeking assistance on unresolved faults

To be competent, the user/individual on the job must be able to:

- **PC41.** seek technical assistance from engineer on faults that cannot be fixed
- PC42. receive instruction from engineers on use of specific tools or new repair processes
- **PC43.** discuss with superior if the cost estimate is found to be Beyond Economic repair (BER) and take recommended action

PC44. coordinate with superior for performing quality check on the repaired module *Reporting and achieving productivity target*









To be competent, the user/individual on the job must be able to:

- PC45. report on the work load and completion status
- PC46. submit the appropriate documentation on completion of task assigned
- **PC47.** document the work completed on the company ERP software for tracking and future references
- PC48. achieve 100% daily and weekly target of number of repairs
- **PC49.** meet the target of quality as per the Service Level Agreement (SLA) of the brand and avoid rework
- PC50. repair within the turnaround time (TAT) and deliver them

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- **KU1.** companys policies on: incentives, delivery standards, and personnel management
- KU2. companys after sales support policy
- **KU3.** importance of the individuals role in the workflow
- KU4. reporting structure
- KU5. companys policy on products warranty and other terms and conditions
- KU6. companys line of business and product portfolio
- KU7. companys repair and stores policy
- KU8. documentation procedure followed in the company
- KU9. companys policy on repair time, turnaround time, production targets, working hours
- KU10. basic electronics involved in the hardware
- KU11. diagnostic or power on tests of different OEMs
- KU12. operations of different models of mobile phone
- KU13. features of mobile phone and their purpose
- KU14. different types of mobile phone and their model specifications
- KU15. new product specifications and their spares and repair details
- KU16. how to document the spares movement note and capture activity performed
- KU17. software and applications related to mobile phone
- KU18. assembling and disassembling mobile phone
- KU19. handling procedure of display systems in mobile phone (LCD and LED)
- KU20. frequently encountered problems in mobile phone and their repair procedures
- KU21. terminologies and procedures mentioned in repair manual
- **KU22.** softwares and operating system related to mobile phone
- **KU23.** applications including games that can be installed in mobile phone and the authentic source to download them
- KU24. licensed versions of software and application, its terms and conditions associated with it
- KU25. different types of soldering techniques such as surface mount, through hole
- **KU26.** basic electronic repairing and reworking such as desoldering, soldering, removal and fixing components







- **KU27.** usage of tools such as electric screwdrivers, multimeter, soldering station, hot air blower, BGA workstation
- KU28. overview of IPC Standards
- **KU29.** critical process handling such as Torque Drivers, Soldering Temperature Maintenance, Light Intensity, Hot Air Blower Temperature Calibrations
- KU30. problem solving techniques such as PDCA, RCA, 7QC Tools
- KU31. X-Ray validations for BGA Rework
- KU32. MSD component handling
- KU33. BGA rework in detail
- **KU34.** RF testing methodologies
- KU35. estimate cost of repair and verify Beyond Economic Repair (BER) value
- KU36. service level agreement (SLA) and conditions associated with it
- **KU37.** Electrostatic Discharge (ESD), its purpose and precautionary measures to be taken
- KU38. process system such as 5S
- KU39. documentation procedure to record customer, mobile phone and repair details
- KU40. check and test various electronic components on their functionality
- KU41. quality standards to be followed
- KU42. implementation process for Engineering Change Order (ECO)

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1. read the standard operating or repair procedure manual for different equipment
- **GS2.** note the process done for diagnose
- GS3. document the completed work
- GS4. to share work load as required
- GS5. to achieve the target
- GS6. operate computer and laptop
- **GS7.** operate the different software related to mobile phone
- GS8. download software and applications from companys website and from cloud appropriately
- GS9. to share work load as required
- GS10. to achieve the target
- **GS11.** to improve work processes
- **GS12.** to reduce errors and correct themselves with the experienced mistakes operate tools such as manual and electric screw drivers for disassembling and assembling of equipments
- GS13. use hot air blower/ gun for desoldering
- **GS14.** use semi-automated or automated BGA work station
- **GS15.** use other specific devices for repairs such as soldering iron, multimeter, POST cards
- **GS16.** use metal or plastic ply to open the panel of mobile phone
- GS17. use antistatic device such as ESD wrist strips







- GS18. to spot process disruptions and delays
- **GS19.** to report on any issues faced to superiors without delay
- **GS20.** is there any software error in the mobile phone which can be checked with with USB cable and can be reported / corrected from OS console
- **GS21.** whether the mobile phone is beyond repair or use and throw type or repairable
- **GS22.** whether it is the LCD plus touch panel or the battery or motherboard which is faulty and can they be replaced
- GS23. whether the motherboard can be replaced at location other than OEM
- **GS24.** are there any hardware issues with camera modules, USB ports and LED light, SOUND devices like speaker mic, antennas for BLE, WiFI, GSM/LTE, NFC, light sensors, proximity sensors, gyro sensors, GPS sensors







Assessment Criteria

| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|-----------------|--------------------|------------------|---------------|
| Following standard repair procedure | 4 | 6 | - | - |
| PC1. follow the standard procedure as documented by the mobile phone brand for each model | 1 | 1 | - | _ |
| PC2. take anti static precautions before work and wear ESD wrist straps or aprons | 1 | 1 | - | - |
| PC3. follow standard operating procedure while handling hardware modules such as handling PCB with ESD standards | 1 | 1 | - | - |
| PC4. use recommended tools for specific operation suggested by the brand | - | 2 | - | - |
| PC5. maintain zero-material defect during material handling by following standard operating procedure | 1 | 1 | - | _ |
| Assembling and disassembling the mobile phone | 5 | 5 | - | - |
| PC6. open the outer panel of the mobile phone using metal / plastic case opening tools | 1 | 1 | - | - |
| PC7. use the brand recommended screwdrivers to remove the screws to open the inner casing | 1 | 1 | - | - |
| PC8. locate the connectors and release them to remove the motherboard from the device | 1 | 1 | - | - |
| PC9. use hot air gun and other devices to remove the LCD screen from the pane | 1 | 1 | - | - |
| PC10. follow similar process and use appropriate tools to assemble the mobile phone | 1 | 1 | - | - |
| Diagnosing the problem | 5 | 10 | - | - |
| PC11. understand the customer level complaint and confirm the issue | 1 | 2 | - | _ |
| PC12. take preventive measures and identify if there are any other issues in the mobile phone | 1 | 2 | - | _ |









| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|-----------------|--------------------|------------------|---------------|
| PC13. use the self diagnostic tools (similar to power on self test (POST) card) to perform standard diagnosis process and ensure functionality of differentparts of the device | 1 | 2 | - | - |
| PC14. follow the standard diagnostic procedure as documented by the mobile phone brand for each model | 1 | 2 | _ | _ |
| PC15. check the recently installed application or software and verify the compatability of the software with the mobile phone | 1 | 2 | - | - |
| Fixing the software | 6 | 9 | - | - |
| PC16. check the recently installed application or software and verify the compatability of the software with the mobile phone | 2 | 3 | _ | - |
| PC17. uninstall the applications that is not compatable or creating issues in the mobile phone | 2 | 3 | - | - |
| PC18. install the licensed and authorised softwares to resolve issues and suiting the customers requirement | 2 | 3 | - | _ |
| Repairing the component or module | 1 | 12 | - | - |
| PC19. understand the scope of component level of repair as suggested by the brand | - | 1 | - | - |
| PC20. estimate the cost of repair and verify if it is with in Beyond Economic Repair (BER) | 1 | - | - | - |
| PC21. heat the singled out component using hot air gun to melt the solder joints and remove from PCB | - | 1 | - | _ |
| PC22. clean the board by melting the old solder and removing | - | 1 | - | - |
| PC23. place the new component precisely on the board at specified location | - | 1 | _ | - |
| PC24. solder the component on the PCB using soldering stations | - | 1 | - | - |









| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|-----------------|--------------------|------------------|---------------|
| PC25. ensure the soldering is proper and the component is fixed as per the specification | - | 1 | - | - |
| PC26. operate automated BGA (ball grid array) work station to precisely remove the chip from the board and repair them | - | 1 | - | - |
| PC27. perform reballing function by dismantling, heating the chip to be removed from the board, remove the solder remains, put new solder balls, place the chip and solder them with the PCB | - | 1 | - | - |
| PC28. check for functioning of the hardware after repairing | - | 1 | - | _ |
| PC29. ensure that there is no damage of PCB while removal and fixing of SMD components | - | 1 | - | _ |
| PC30. ensure other components are not damaged while using hot air gun for removal of a component which could cause damage | - | 1 | _ | - |
| PC31. ensure adequate soldering for fixing the component and no further rework is required | - | 1 | - | - |
| Replacing faulty component | 5 | 5 | - | - |
| PC32. receive spare module / component from stores or OEM | 1 | 1 | - | _ |
| PC33. identify and decide on replacing the module or component as the appropriate solution | 1 | 1 | - | _ |
| PC34. take adequate measures and follow procedures when replacing expensive or delicate components such as LCD | 1 | 1 | - | - |
| PC35. ensure that cost of replacing is justified as the repair cost is beyond economic repair (BER) | 1 | 1 | - | - |
| PC36. ensure that replaced module or component is working and no further rework is required | 1 | 1 | - | - |
| Using equipment | 4 | 4 | - | - |
| PC37. identify and use appropriate tools and manuals for repairing the specific issue | 1 | 1 | - | - |









| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|--|-----------------|--------------------|------------------|---------------|
| PC38. prevent any accidents while handling hazardous tools | 1 | 1 | - | - |
| PC39. achieve results using appropriate tools for specific rework activity | 1 | 1 | - | - |
| PC40. maintain zero-material defect during material handling by following standard operating procedure for tools handling | 1 | 1 | - | _ |
| Seeking assistance on unresolved faults | 4 | 6 | - | - |
| PC41. seek technical assistance from engineer on faults that cannot be fixed | 1 | 1 | - | - |
| PC42. receive instruction from engineers on use of specific tools or new repair processes | 1 | 2 | _ | - |
| PC43. discuss with superior if the cost estimate is found to be Beyond Economic repair (BER) and take recommended action | 1 | 2 | - | - |
| PC44. coordinate with superior for performing quality check on the repaired module | 1 | 1 | - | _ |
| Reporting and achieving productivity target | 6 | 3 | - | - |
| PC45. report on the work load and completion status | 1 | - | - | - |
| PC46. submit the appropriate documentation on completion of task assigned | 1 | 1 | _ | - |
| PC47. document the work completed on the company ERP software for tracking and future references | 1 | 1 | _ | _ |
| PC48. achieve 100% daily and weekly target of number of repairs | 1 | 1 | - | - |
| PC49. meet the target of quality as per the Service Level Agreement (SLA) of the brand and avoid rework | 1 | - | - | - |
| PC50. repair within the turnaround time (TAT) and deliver them | 1 | - | - | - |
| NOS Total | 40 | 60 | - | - |









National Occupational Standards (NOS) Parameters

| NOS Code | ELE/N8107 |
|---------------------|---|
| NOS Name | Repair and rectify the faults in mobile phone |
| Sector | Electronics |
| Sub-Sector | Communication and Broadcasting |
| Occupation | After Sales Service |
| NSQF Level | 4 |
| Credits | TBD |
| Version | 1.0 |
| Last Reviewed Date | 31/03/2022 |
| Next Review Date | 19/07/2023 |
| NSQC Clearance Date | 19/01/2023 |







ELE/N1002: Apply health and safety practices at the workplace

Description

This OS unit is about knowledge and practices relating to health, safety and security that candidates need to use in the workplace.

Scope

The scope covers the following :

- Deal with workplace hazards
- Apply fire safety practices
- Follow emergencies, rescue and first-aid procedures
- Effective waste management/recycling practices

Elements and Performance Criteria

Deal with workplace hazards

To be competent, the user/individual on the job must be able to:

- PC1. identify job-site hazards and possible causes of accident in the workplace
- **PC2.** perform work complying to organizational safe working practices and observing hazard signs displayed on containers, equipment and in various work areas such as inside buildings, in open areas and public spaces, etc.
- **PC3.** use appropriate personal protective equipment (PPE) for specific tasks and work conditions, contaminant (concentration w.r.t air) requirements and severity of hazard while conforming to the Indian/International standards
- **PC4.** follow standard safety procedures while handling tool/ ,equipment, hazardous substances and while working in hazardous environments
- **PC5.** dispose electronic waste (such as toxins; metals such as lead, cadmium, barium; flame retardant plastics, welding slag etc.) as per industry approved techniques
- **PC6.** avoid damage of components due to negligence in electrostatic discharge (ESD) procedures
- **PC7.** locate general health and safety equipment in the workplace such as fire extinguishers; first aid equipment; safety instruments, clothing and installations (fire exits, exhaust fans)
- PC8. maintain appropriate posture while handling heavy objects
- PC9. apply good housekeeping practices at all times

Apply fire safety practices

To be competent, the user/individual on the job must be able to:

- **PC10.** take preventive measures to prevent fire hazards
- **PC11.** use appropriate fire extinguishers for different types of fires
 - Types of fires: Class A: e.g. ordinary solid combustibles, such as wood, paper, cloth, plastic, charcoal, etc.; Class B: flammable liquids and gases, such as gasoline, propane, diesel fuel, tar, cooking oil, and similar substances; Class C: e.g. electrical equipment such as appliances, wiring, breaker panels, etc. (These categories of fires become Class A, B, and D fires when the electrical equipment that initiated the fire is no l
- PC12. exhibit rescue and first-aid techniques in case of fire or electrocution









Follow emergencies, rescue and first-aid procedures

To be competent, the user/individual on the job must be able to:

- **PC13.** administer appropriate first aid to victims in case of bleeding, burns, choking, electric shock, poisoning etc.
- PC14. administer first aid to victims in case of a heart attack or cardiac arrest due to electric shock,
- **PC15.** participate regularly in emergency procedures such as raising alarm, safe/efficient, evacuation, correct means of taking shelter and escaping, correct assembly point, roll call, correct return to work
- PC16. use correct method to move injured people and others during an emergency

Effective waste management/recycling practices

To be competent, the user/individual on the job must be able to:

- PC17. identify recyclable and non-recyclable, and hazardous waste generated
- PC18. segregate waste into different categories
- PC19. ensure disposal of non-recyclable waste appropriately
- PC20. deposit non-recyclable and reusable material at identified location
- PC21. follow processes specified for disposal of hazardous waste

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- **KU1.** importance of working in clean and safe work environment following safety practices and procedures
- **KU2.** health and safety roles and responsibilities of relevant personnel within and outside the organisation
- **KU3.** key internal and external sources of health and safety information
- KU4. basic knowledge of electronic devices and related health risks
- KU5. meaning of hazards and risks
- **KU6.** various types of health and safety hazards commonly present in the work environment such as physical hazards, electrical hazards, chemical hazards, fire hazards, equipment related hazards, health hazards, etc.
- KU7. methods of accident prevention
- KU8. importance of using protective clothing/equipment while working
- KU9. general principles for identifying and controlling health and safety risks
- **KU10.** main hazards and preventive as well as control measures while working with different types of equipment
- **KU11.** importance of carrying out electrical and non-electrical isolation to prevent hazards from loss of machine/system/process control
- **KU12.** main hazards and preventive as well as control measures when working with electrical systems or using electrical equipment
- KU13. forms and classifications of hazardous substances
- KU14. safe working practices while working at various hazardous sites
- **KU15.** prevention and control measures to reduce risks from exposure to hazardous substances









- **KU16.** health effects associated with exposure to noise and vibration and the appropriate control measures
- **KU17.** precautionary activities to prevent the fire accident
- **KU18.** various causes of fire such as heating of metal, spontaneous ignition, sparking, electrical eating, loose fires (smoking, welding, etc.) chemical fires etc.
- KU19. techniques of using the different fire extinguishers
- KU20. different methods and material to extinguish fires
- KU21. different materials used for extinguishing fire such as sand, water, foam, CO2, dry powder
- KU22. rescue techniques used during a fire hazard
- KU23. various types of safety signs and their meaning
- **KU24.** basic first aid treatment relevant to the common work place injuries e.g. shock, electrical shock, bleeding, breaks to bones, minor burns, resuscitation, poisoning, eye injuries
- KU25. contents of written accident report
- KU26. potential injuries and ill health associated with incorrect handing of tools and equipment
- KU27. safe lifting and carrying practices
- KU28. potential impact to a person who is moved incorrectly
- KU29. personal safety, health and dignity issues relating to the movement of a person by others
- KU30. ESD measures and 5S
- KU31. efficient utilization and management of material and water
- **KU32.** ways to recognize common electrical problems and practices of conserving electricity
- **KU33.** usage of different colours of dustbins, categorization of waste into dry, wet, recyclable, nonrecyclable and items of single-use plastics
- KU34. organization's procedure for minimizing waste
- **KU35.** waste management and methods of waste disposal
- KU36. common sources of pollution and ways to minimize it
- **KU37.** names, contact information and location of people responsible for health and safety in the workplace
- **KU38.** location of documents and equipment for health and safety compliance/practices in the workplace
- KU39. safety notices, signs and instructions at workplace

Generic Skills (GS)

User/individual on the job needs to know how to:

- **GS1.** interpret general health and safety guidelines labels, charts, signages
- GS2. read operation manuals
- **GS3.** write health and safety compliance report
- GS4. write an accident/incident report in local language or English
- **GS5.** provide an emergency or safety incident brief to seniors or relevant authorities in a calm, clear and to-the-point manner
- GS6. communicate general health and safety guidelines to colleagues/co-workers









- **GS7.** communicate appropriately with co-workers in order to clarify instructions and other issues
- **GS8.** act in case of any potential hazards observed in the work place
- **GS9.** plan and organize their own work schedule, work area, tools, equipment in compliance with organizational policies for health, safety and security
- GS10. take adequate measures to ensure the safety of clients and visitors at the workplace
- **GS11.** identify immediate or temporary solutions to resolve delays
- GS12. evaluate the work area for health and safety risks or hazards
- **GS13.** use cause and effect relations to anticipate potential issues, problems and their solution in the work area related to safety
- **GS14.** recognise emergency and potential emergency situations
- GS15. protect self and others from a health and safety risk or hazard
- **GS16.** communicate and collaborate to incorporate sustainable practices (greening) in workplace processes
- GS17. record data on waste disposal at workplace







Assessment Criteria

| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|--|-----------------|--------------------|------------------|---------------|
| Deal with workplace hazards | 20 | 31 | - | - |
| PC1. identify job-site hazards and possible causes of accident in the workplace | 2 | 3 | - | - |
| PC2. perform work complying to organizational safe working practices and observing hazard signs displayed on containers, equipment and in various work areas such as inside buildings, in open areas and public spaces, etc. | 3 | 4 | - | - |
| PC3. use appropriate personal protective equipment (PPE) for specific tasks and work conditions, contaminant (concentration w.r.t air) requirements and severity of hazard while conforming to the Indian/International standards | 3 | 4 | - | _ |
| PC4. follow standard safety procedures while handling tool/ ,equipment, hazardous substances and while working in hazardous environments | 3 | 4 | - | _ |
| PC5. dispose electronic waste (such as toxins; metals such as lead, cadmium, barium; flame retardant plastics, welding slag etc.) as per industry approved techniques | 2 | 4 | - | _ |
| PC6. avoid damage of components due to negligence in electrostatic discharge (ESD) procedures | 2 | 3 | - | _ |
| PC7. locate general health and safety equipment in the workplace such as fire extinguishers; first aid equipment; safety instruments, clothing and installations (fire exits, exhaust fans) | 2 | 3 | - | _ |
| PC8. maintain appropriate posture while handling heavy objects | 1 | 3 | - | - |
| PC9. apply good housekeeping practices at all times | 2 | 3 | - | - |
| Apply fire safety practices | 4 | 9 | - | - |
| PC10. take preventive measures to prevent fire hazards | 2 | 3 | - | - |









| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|-----------------|--------------------|------------------|---------------|
| PC11. use appropriate fire extinguishers for different types of fires Types of fires: Class A: e.g. ordinary solid combustibles, such as wood, paper, cloth, plastic, charcoal, etc.; Class B: flammable liquids and gases, such as gasoline, propane, diesel fuel, tar, cooking oil, and similar substances; Class C: e.g. electrical equipment such as appliances, wiring, breaker panels, etc. (These categories of fires become Class A, B, and D fires when the electrical equipment that initiated the fire is no l | 1 | 3 | - | - |
| PC12. exhibit rescue and first-aid techniques in case of fire or electrocution | 1 | 3 | - | - |
| Follow emergencies, rescue and first-aid procedures | 6 | 13 | - | - |
| PC13. administer appropriate first aid to victims in case of bleeding, burns, choking, electric shock, poisoning etc. | 1 | 3 | - | - |
| PC14. administer first aid to victims in case of a heart attack or cardiac arrest due to electric shock, | 1 | 2 | - | - |
| PC15. participate regularly in emergency procedures such as raising alarm, safe/efficient, evacuation, correct means of taking shelter and escaping, correct assembly point, roll call, correct return to work | 2 | 4 | - | - |
| PC16. use correct method to move injured people and others during an emergency | 2 | 4 | - | - |
| Effective waste management/recycling practices | 5 | 12 | - | - |
| PC17. identify recyclable and non-recyclable, and hazardous waste generated | 1 | 3 | - | - |
| PC18. segregate waste into different categories | 1 | 2 | - | - |
| PC19. ensure disposal of non-recyclable waste appropriately | 1 | 2 | - | - |
| PC20. deposit non-recyclable and reusable material at identified location | 1 | 3 | - | - |









| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|-----------------|--------------------|------------------|---------------|
| PC21. follow processes specified for disposal of hazardous waste | 1 | 2 | - | - |
| NOS Total | 35 | 65 | - | - |







National Occupational Standards (NOS) Parameters

| NOS Code | ELE/N1002 |
|---------------------|--|
| NOS Name | Apply health and safety practices at the workplace |
| Sector | Electronics |
| Sub-Sector | Generic |
| Occupation | Generic - Health Safety |
| NSQF Level | 4 |
| Credits | TBD |
| Version | 3.0 |
| Last Reviewed Date | 24/02/2022 |
| Next Review Date | 30/12/2026 |
| NSQC Clearance Date | 30/12/2021 |







DGT/VSQ/N0102: Employability Skills (60 Hours)

Description

This unit is about employability skills, Constitutional values, becoming a professional in the 21st Century, digital, financial, and legal literacy, diversity and Inclusion, English and communication skills, customer service, entrepreneurship, and apprenticeship, getting ready for jobs and career development.

Scope

The scope covers the following :

- Introduction to Employability Skills
- Constitutional values Citizenship
- Becoming a Professional in the 21st Century
- Basic English Skills
- Career Development & Goal Setting
- Communication Skills
- Diversity & Inclusion
- Financial and Legal Literacy
- Essential Digital Skills
- Entrepreneurship
- Customer Service
- Getting ready for Apprenticeship & Jobs

Elements and Performance Criteria

Introduction to Employability Skills

To be competent, the user/individual on the job must be able to:

- PC1. identify employability skills required for jobs in various industries
- PC2. identify and explore learning and employability portals

Constitutional values - Citizenship

To be competent, the user/individual on the job must be able to:

- **PC3.** recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.
- PC4. follow environmentally sustainable practices

Becoming a Professional in the 21st Century

To be competent, the user/individual on the job must be able to:

- PC5. recognize the significance of 21st Century Skills for employment
- **PC6.** practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life

Basic English Skills

To be competent, the user/individual on the job must be able to:









- **PC7.** use basic English for everyday conversation in different contexts, in person and over the telephone
- **PC8.** read and understand routine information, notes, instructions, mails, letters etc. written in English
- PC9. write short messages, notes, letters, e-mails etc. in English

Career Development & Goal Setting

To be competent, the user/individual on the job must be able to:

- PC10. understand the difference between job and career
- **PC11.** prepare a career development plan with short- and long-term goals, based on aptitude

Communication Skills

To be competent, the user/individual on the job must be able to:

- **PC12.** follow verbal and non-verbal communication etiquette and active listening techniques in various settings
- PC13. work collaboratively with others in a team

Diversity & Inclusion

To be competent, the user/individual on the job must be able to:

- PC14. communicate and behave appropriately with all genders and PwD
- PC15. escalate any issues related to sexual harassment at workplace according to POSH Act

Financial and Legal Literacy

To be competent, the user/individual on the job must be able to:

- PC16. select financial institutions, products and services as per requirement
- PC17. carry out offline and online financial transactions, safely and securely
- **PC18.** identify common components of salary and compute income, expenses, taxes, investments etc
- **PC19.** identify relevant rights and laws and use legal aids to fight against legal exploitation *Essential Digital Skills*

To be competent, the user/individual on the job must be able to:

- PC20. operate digital devices and carry out basic internet operations securely and safely
- PC21. use e- mail and social media platforms and virtual collaboration tools to work effectively
- PC22. use basic features of word processor, spreadsheets, and presentations

Entrepreneurship

To be competent, the user/individual on the job must be able to:

- **PC23.** identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research
- **PC24.** develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion
- **PC25.** identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity

Customer Service

To be competent, the user/individual on the job must be able to:

- **PC26.** identify different types of customers
- **PC27.** identify and respond to customer requests and needs in a professional manner.









PC28. follow appropriate hygiene and grooming standards

Getting ready for apprenticeship & Jobs

To be competent, the user/individual on the job must be able to:

- PC29. create a professional Curriculum vitae (Résumé)
- **PC30.** search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively
- PC31. apply to identified job openings using offline /online methods as per requirement
- **PC32.** answer questions politely, with clarity and confidence, during recruitment and selection
- PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1. need for employability skills and different learning and employability related portals
- KU2. various constitutional and personal values
- KU3. different environmentally sustainable practices and their importance
- KU4. Twenty first (21st) century skills and their importance
- **KU5.** how to use English language for effective verbal (face to face and telephonic) and written communication in formal and informal set up
- KU6. importance of career development and setting long- and short-term goals
- **KU7.** about effective communication
- KU8. POSH Act
- KU9. Gender sensitivity and inclusivity
- KU10. different types of financial institutes, products, and services
- **KU11.** how to compute income and expenditure
- KU12. importance of maintaining safety and security in offline and online financial transactions
- KU13. different legal rights and laws
- KU14. different types of digital devices and the procedure to operate them safely and securely
- **KU15.** how to create and operate an e- mail account and use applications such as word processors, spreadsheets etc.
- KU16. how to identify business opportunities
- KU17. types and needs of customers
- KU18. how to apply for a job and prepare for an interview
- KU19. apprenticeship scheme and the process of registering on apprenticeship portal

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1. read and write different types of documents/instructions/correspondence
- GS2. communicate effectively using appropriate language in formal and informal settings









- GS3. behave politely and appropriately with all
- **GS4.** how to work in a virtual mode
- GS5. perform calculations efficiently
- **GS6.** solve problems effectively
- **GS7.** pay attention to details
- **GS8.** manage time efficiently
- **GS9.** maintain hygiene and sanitization to avoid infection







Assessment Criteria

| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|--|-----------------|--------------------|------------------|---------------|
| Introduction to Employability Skills | 1 | 1 | - | - |
| PC1. identify employability skills required for jobs in various industries | - | - | - | - |
| PC2. identify and explore learning and employability portals | - | - | - | - |
| Constitutional values – Citizenship | 1 | 1 | - | - |
| PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc. | - | - | - | - |
| PC4. follow environmentally sustainable practices | - | - | - | - |
| Becoming a Professional in the 21st Century | 2 | 4 | - | - |
| PC5. recognize the significance of 21st Century Skills for employment | - | - | - | - |
| PC6. practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life | - | _ | - | - |
| Basic English Skills | 2 | 3 | - | - |
| PC7. use basic English for everyday conversation in different contexts, in person and over the telephone | - | - | - | - |
| PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English | - | - | - | - |
| PC9. write short messages, notes, letters, e-mails etc. in English | - | - | - | - |
| Career Development & Goal Setting | 1 | 2 | - | - |









| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|-----------------|--------------------|------------------|---------------|
| PC10. understand the difference between job and career | - | - | - | - |
| PC11. prepare a career development plan with short- and long-term goals, based on aptitude | - | - | - | - |
| Communication Skills | 2 | 2 | - | - |
| PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings | - | - | - | - |
| PC13. work collaboratively with others in a team | - | - | - | - |
| Diversity & Inclusion | 1 | 2 | - | - |
| PC14. communicate and behave appropriately with all genders and PwD | - | - | - | - |
| PC15. escalate any issues related to sexual harassment at workplace according to POSH Act | - | - | - | - |
| Financial and Legal Literacy | 2 | 3 | - | - |
| PC16. select financial institutions, products and services as per requirement | - | - | - | - |
| PC17. carry out offline and online financial transactions, safely and securely | - | - | - | - |
| PC18. identify common components of salary and compute income, expenses, taxes, investments etc | - | - | - | - |
| PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation | - | - | - | - |
| Essential Digital Skills | 3 | 4 | - | - |
| PC20. operate digital devices and carry out basic internet operations securely and safely | - | - | _ | - |
| PC21. use e- mail and social media platforms and virtual collaboration tools to work effectively | - | - | - | - |
| PC22. use basic features of word processor, spreadsheets, and presentations | - | - | _ | - |









| Assessment Criteria for Outcomes | Theory Marks | Practical Marks | Project Marks | Viva Marks |
|---|-----------------|--------------------|------------------|---------------|
| Entrepreneurship | 2 | 3 | - | - |
| PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research | - | - | - | - |
| PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion | - | - | - | - |
| PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity | - | - | - | - |
| Customer Service | 1 | 2 | - | - |
| PC26. identify different types of customers | _ | - | - | - |
| PC27. identify and respond to customer requests and needs in a professional manner. | - | - | - | - |
| PC28. follow appropriate hygiene and grooming standards | - | - | - | - |
| Getting ready for apprenticeship & Jobs | 2 | 3 | - | - |
| PC29. create a professional Curriculum vitae (Résumé) | - | - | - | - |
| PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively | - | - | - | - |
| PC31. apply to identified job openings using offline /online methods as per requirement | _ | - | - | - |
| PC32. answer questions politely, with clarity and confidence, during recruitment and selection | _ | - | _ | - |
| PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements | _ | - | - | - |
| NOS Total | 20 | 30 | - | - |









National Occupational Standards (NOS) Parameters

| NOS Code | DGT/VSQ/N0102 |
|---------------------|---------------------------------|
| NOS Name | Employability Skills (60 Hours) |
| Sector | Cross Sectoral |
| Sub-Sector | Professional Skills |
| Occupation | Employability |
| NSQF Level | 4 |
| Credits | 2 |
| Version | 1.0 |
| Last Reviewed Date | ΝΑ |
| Next Review Date | 24/02/2025 |
| NSQC Clearance Date | 24/02/2022 |

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Element/ Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each Element/ PC.

2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.

3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.

4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).

5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training center based on these criteria.

6. To pass the Qualification Pack assessment, every trainee should score the Recommended Pass % aggregate for the QP.

7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.







Minimum Aggregate Passing % at QP Level : 70

(**Please note**: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

Assessment Weightage

Compulsory NOS

| National Occupational Standards | Theory Marks | Practical Marks | Project Marks | Viva Marks | Total Marks | Weightage |
|---|-----------------|--------------------|------------------|---------------|----------------|-----------|
| ELE/N8104.Interact with customer and perform front end repair | 40 | 60 | - | - | 100 | 35 |
| ELE/N8107.Repair and rectify the faults in mobile phone | 40 | 60 | - | - | 100 | 40 |
| ELE/N1002.Apply health and safety practices at the workplace | 35 | 65 | - | - | 100 | 15 |
| DGT/VSQ/N0102.Employability Skills (60 Hours) | 20 | 30 | - | - | 50 | 10 |
| Total | 135 | 215 | - | - | 350 | 100 |







Acronyms

| NOS | National Occupational Standard(s) |
|------|---|
| NSQF | National Skills Qualifications Framework |
| QP | Qualifications Pack |
| TVET | Technical and Vocational Education and Training |
| RAM | Random Access Memory |
| IC | Integrated Circuit |
| СРИ | Central Processing Unit |
| GPS | Global Positioning System |
| ESD | Electro Static Discharge |







Glossary

| Sector | Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests. |
|---|--|
| Sub-sector | Sub-sector is derived from a further breakdown based on the characteristics and interests of its components. |
| Occupation | Occupation is a set of job roles, which perform similar/ related set of functions in an industry. |
| Job role | Job role defines a unique set of functions that together form a unique employment opportunity in an organisation. |
| Occupational Standards (OS) | OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts. |
| Performance Criteria (PC) | Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task. |
| National Occupational Standards (NOS) | NOS are occupational standards which apply uniquely in the Indian context. |
| Qualifications Pack (QP) | QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code. |
| Unit Code | Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N' |
| Unit Title | Unit title gives a clear overall statement about what the incumbent should be able to do. |
| Description | Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for. |
| Scope | Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required. |









| Knowledge and Understanding (KU) | Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard. |
|-------------------------------------|--|
| Organisational Context | Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility. |
| Technical Knowledge | Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities. |
| Core Skills/ Generic Skills (GS) | Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles. |
| Electives | Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives. |
| Options | Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options. |