सत्यमेव जयते
GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP

कौशल गुणवत्ता प्रगति

Qualification Pack

JR. TECHNICIAN (ELECTRONICS EQUIPMENT)

QP Code: MSME/ELE/Q2001

Version: 1.0

NSQF Level: 3.0

MSME TECHNOLOGY CENTRE ||
B-36 CHANDAKA INDUSTRIAL AREA || email:msmeexamcell@gmail.com

Contents

Qualification Pack

MSME/ELE/Q2001: JR. TECHNICIAN (ELECTRONICS EQUIPMENT)

Brief Job Description

Learner who attain this qualification are competent to carry out electronic gadgets repair jobs. Learned candidates are qualified to work as Electronics Equipment Technician, Television Installation Man.

Personal Attributes

Learner who attain this qualification are competent to carry out electronic gadgets repair jobs. Learned candidates are qualified to work as Electronics Equipment Technician, Television Installation Man.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. MSME/ELE/N2006: Electronics Equipment Repair & Maintenance Skills
2. MSME/ELE/N2005: Electronics Equipment Repair & Maintenance Skills
3. MSME/ELE/N2004: Learn and apply Industrial Instrumentation Techniques
4. MSME/ELE/N2003: Learn and apply Industrial Instrumentation Techniques
5. MSME/ELE/N2002: Acquire the concepts of Electronic Devices & Circuits
6. MSME/ELE/N2001: Acquire the concepts of Electronic Devices & Circuits
7. MSME/ELE/N2007: Employabilityskills

Qualification Pack (QP) Parameters

Sector	Electronics
Sub-Sector	Strategic Electronics
Occupation	Repair and Maintenance
Country	India
NSQF Level	3.0
Credits	20

Qualification Pack

Aligned to NCO/ISCO/ISIC Code	Electronic Mechanic
Minimum Educational Qualification & Experience	10th grade pass with NA of experience OR Previous relevant Qualification of NSQF Level 2.5 with 1.5 years of experience
Minimum Level of Education for Training in School	
Pre-Requisite License or Training	NA
Minimum Job Entry Age	15 Years
Last Reviewed On	NA
Next Review Date	30/04/2027
NSQC Approval Date	30/04/2024
Version	1.0
Reference code on NQR	NQR Code: QG-03-EH-02382-2024-V1-MSME
NQR Version	1.0

MSME/ELE/N2006: Electronics Equipment Repair & Maintenance Skills

Description

After completion of course Student should be able to Plan for preventive maintenance.

Scope

The scope covers the following :

- After completion of course Student should be able to Plan for preventive maintenance.

Elements and Performance Criteria

MSME/EET/03 Electronics Equipment Repair & Maintenance Skills

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

PC1. Plan for preventive maintenance.

PC2. Rectify faulty system.

PC3. Breakdown maintenance

PC4. Calibrate the electro technical equipment.

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
MSME/EET/03 Electronics Equipment Repair & Maintenance Skills	**-**	**100**	**-**	**-**
PC1. Plan for preventive maintenance.	-	-	-	-
PC2. Rectify faulty system.	-	-	-	-
PC3. Breakdown maintenance	-	-	-	-
PC4. Calibrate the electro technical equipment.	-	-	-	-
NOS Total	**-**	**100**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ELE/N2006
NOS Name	Electronics Equipment Repair & Maintenance Skills
Sector	Electronics
Sub-Sector	
Occupation	Repair and Maintenance
NSQF Level	3.0
Credits	8
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024

MSME/ELE/N2005: Electronics Equipment Repair & Maintenance Skills

Description

After completion of course Student should be able to Plan for preventive maintenance.

Scope

The scope covers the following :

- After completion of course Student should be able to Plan for preventive maintenance.

Elements and Performance Criteria

MSME/EET/03 Electronics Equipment Repair & Maintenance Skills

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

PC1. Plan for preventive maintenance.

PC2. Rectify faulty system.

PC3. Breakdown maintenance

PC4. Calibrate the electro technical equipment.

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
MSME/EET/03 Electronics Equipment Repair & Maintenance Skills	**100**	**-**	**-**	**-**
PC1. Plan for preventive maintenance.	-	-	-	-
PC2. Rectify faulty system.	-	-	-	-
PC3. Breakdown maintenance	-	-	-	-
PC4. Calibrate the electro technical equipment.	-	-	-	-
NOS Total	**100**	**-**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ELE/N2005
NOS Name	Electronics Equipment Repair & Maintenance Skills
Sector	Electronics
Sub-Sector	
Occupation	Repair and Maintenance
NSQF Level	3.0
Credits	2
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024

MSME/ELE/N2004: Learn and apply Industrial Instrumentation Techniques

Description

After completion of course Student should be able to Define transducer.

Scope

The scope covers the following :

- After completion of course Student should be able to Define transducer.

Elements and Performance Criteria

MSME/EET/02 Learn and apply Industrial Instrumentation Techniques

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

PC1. Define transducer.

PC2. Explain the use of transducers.

PC3. Use various amplifiers as per the requirements.

PC4. Understand concept of hardware & software

PC5. Identification and testing of different types of thyristors.

PC6. Highlight the application areas of different thyristors.

PC7. Know the specification of a relay.

PC8. Test relays

PC9. Explain the use of relay in electronic circuits.

PC10. Test different types of optoelectronic components.

PC11. • Explain the use of different circuits controlled by optoelectronic
• components.

PC12. Draw the PLC architecture diagram.

PC13. Enumerate the application of PLC in industry.

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
MSME/EET/02 Learn and apply Industrial Instrumentation Techniques	-	100	-	-
PC1. Define transducer.	-	-	-	-
PC2. Explain the use of transducers.	-	-	-	-
PC3. Use various amplifiers as per the requirements.	-	-	-	-
PC4. Understand concept of hardware & software	-	-	-	-
PC5. Identification and testing of different types of thyristors.	-	-	-	-
PC6. Highlight the application areas of different thyristors.	-	-	-	-
PC7. Know the specification of a relay.	-	-	-	-
PC8. Test relays	-	-	-	-
PC9. Explain the use of relay in electronic circuits.	-	-	-	-
PC10. Test different types of optoelectronic components.	-	-	-	-
PC11. • Explain the use of different circuits controlled by optoelectronic • components.	-	-	-	-
PC12. Draw the PLC architecture diagram.	-	-	-	-
PC13. Enumerate the application of PLC in industry.	-	-	-	-
NOS Total	-	100	-	-

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ELE/N2004
NOS Name	Learn and apply Industrial Instrumentation Techniques
Sector	Electronics
Sub-Sector	
Occupation	Repair and Maintenance
NSQF Level	3.0
Credits	2
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024

MSME/ELE/N2003: Learn and apply Industrial Instrumentation Techniques

Description

After completion of course Student should be able to Define transducer.

Scope

The scope covers the following :

- After completion of course Student should be able to Define transducer.

Elements and Performance Criteria

MSME/EET/02 Learn and apply Industrial Instrumentation Techniques

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

PC1. Define transducer.

PC2. Explain the use of transducers.

PC3. Use various amplifiers as per the requirements.

PC4. Understand concept of hardware & software

PC5. Identification and testing of different types of thyristors.

PC6. Highlight the application areas of different thyristors.

PC7. Know the specification of a relay.

PC8. Test relays

PC9. Explain the use of relay in electronic circuits.

PC10. Test different types of optoelectronic components.

PC11. • Explain the use of different circuits controlled by optoelectronic
• components.

PC12. Draw the PLC architecture diagram.

PC13. Enumerate the application of PLC in industry.

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
MSME/EET/02 Learn and apply Industrial Instrumentation Techniques	**100**	**-**	**-**	**-**
PC1. Define transducer.	-	-	-	-
PC2. Explain the use of transducers.	-	-	-	-
PC3. Use various amplifiers as per the requirements.	-	-	-	-
PC4. Understand concept of hardware & software	-	-	-	-
PC5. Identification and testing of different types of thyristors.	-	-	-	-
PC6. Highlight the application areas of different thyristors.	-	-	-	-
PC7. Know the specification of a relay.	-	-	-	-
PC8. Test relays	-	-	-	-
PC9. Explain the use of relay in electronic circuits.	-	-	-	-
PC10. Test different types of optoelectronic components.	-	-	-	-
PC11. • Explain the use of different circuits controlled by optoelectronic • components.	-	-	-	-
PC12. Draw the PLC architecture diagram.	-	-	-	-
PC13. Enumerate the application of PLC in industry.	-	-	-	-
NOS Total	**100**	**-**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ELE/N2003
NOS Name	Learn and apply Industrial Instrumentation Techniques
Sector	Electronics
Sub-Sector	
Occupation	Repair and Maintenance
NSQF Level	3.0
Credits	1
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024

MSME/ELE/N2002: Acquire the concepts of Electronic Devices & Circuits

Description

After completion of course Student should be able to Identify, test and find the resistance of a resistor.

Scope

The scope covers the following :

- After completion of course Student should be able to Identify, test and find the resistance of a resistor.

Elements and Performance Criteria

MSME/EET/01 Acquire the concepts of Electronic Devices & Circuits

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

PC1. Observe safety precautions while working.

PC2. • Explain DC series and DC parallel circuits and its utility in electrical
• technology. Use and simulate cycles using various controls.

PC3. Analyze parameters for various machining cycles and operations.

PC4. • Measure power and consumed electrical energy in any electric
• load.

PC5. Explain the working principles of cells and batteries.

PC6. Describe basic principles of electro statics and electro dynamics

PC7. • Explain fundamental of AC, sinusoidal curve, alternating quantity,
• cycle, time period, frequency, instantaneous value, maximum
• value, average value, RMS value.

PC8. • Explain fundamental of AC, sinusoidal curve, alternating quantity,
• cycle, time period, frequency, instantaneous value, maximum
• value, average value, RMS value.

PC9. Identify, test and find the resistance of a resistor.

PC10. Identify, test and find the capacitance of a capacitor

PC11. Know the use of capacitor.

PC12. Manufacture RF coils

PC13. Test inductors and RF coils.

PC14. Manufacture and test transformers.

PC15. Explain the electron transport in semiconductors.

PC16. Explain the operating principle of PN junction.

PC17. Identify and test different types of diodes.

PC18. Test transistor.

PC19. Assemble the amplifier circuit.

PC20. Explain lathe machine.

PC21. Describe the lathe machine parts & accessories

PC22. Describe the different oscillator circuits.

PC23. Assemble various oscillator circuits.

PC24. Test proper working of the oscillator

PC25. • Explain the theory of ripple factor, regulation and efficiency of a
• power supply.

PC26. • Assemble different types of rectifiers (half wave, full wave,
• bridge.

PC27. Explain the pin diagram and working of UA741

PC28. Precautions during handling of Electronic ICs.

PC29. Explain the use of clipping and clamping circuits.

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
MSME/EET/01 Acquire the concepts of Electronic Devices & Circuits	**-3**	**100**	**-**	**-**
PC1. Observe safety precautions while working.	-	-	-	-
PC2. • Explain DC series and DC parallel circuits and its utility in electrical • technology. Use and simulate cycles using various controls.	-	-	-	-
PC3. Analyze parameters for various machining cycles and operations.	-	-	-	-
PC4. • Measure power and consumed electrical energy in any electric • load.	-	-	-	-
PC5. Explain the working principles of cells and batteries.	-	-	-	-
PC6. Describe basic principles of electro statics and electro dynamics	-	-	-	-
PC7. • Explain fundamental of AC, sinusoidal curve, alternating quantity, • cycle, time period, frequency, instantaneous value, maximum • value, average value, RMS value.	-	-	-	-
PC8. • Explain fundamental of AC, sinusoidal curve, alternating quantity, • cycle, time period, frequency, instantaneous value, maximum • value, average value, RMS value.	-	-	-	-
PC9. Identify, test and find the resistance of a resistor.	-	-	-	-
PC10. Identify, test and find the capacitance of a capacitor	-	-	-	-
PC11. Know the use of capacitor.	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Manufacture RF coils	-	-	-	-
PC13. Test inductors and RF coils.	-	-	-	-
PC14. Manufacture and test transformers.	-	-	-	-
PC15. Explain the electron transport in semiconductors.	-	-	-	-
PC16. Explain the operating principle of PN junction.	-	-	-	-
PC17. Identify and test different types of diodes.	-	-	-	-
PC18. Test transistor.	-	-	-	-
PC19. Assemble the amplifier circuit.	-	-	-	-
PC20. Explain lathe machine.	-	-	-	-
PC21. Describe the lathe machine parts & accessories	-	-	-	-
PC22. Describe the different oscillator circuits.	-	-	-	-
PC23. Assemble various oscillator circuits.	-	-	-	-
PC24. Test proper working of the oscillator	-	-	-	-
PC25. • Explain the theory of ripple factor, regulation and efficiency of a • power supply.	-	-	-	-
PC26. • Assemble different types of rectifiers (half wave, full wave, • bridge.	-	-	-	-
PC27. Explain the pin diagram and working of UA741	-	-	-	-
PC28. Precautions during handling of Electronic ICs.	-	-	-	-
PC29. Explain the use of clipping and clamping circuits.	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
NOS Total	-	100	-	-

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ELE/N2002
NOS Name	Acquire the concepts of Electronic Devices & Circuits
Sector	Electronics
Sub-Sector	
Occupation	Repair and Maintenance
NSQF Level	3.0
Credits	4
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024

MSME/ELE/N2001: Acquire the concepts of Electronic Devices & Circuits

Description

After completion of course Student should be able to Identify, test and find the resistance of a resistor.

Scope

The scope covers the following :

- After completion of course Student should be able to Identify, test and find the resistance of a resistor.

Elements and Performance Criteria

MSME/EET/01 Acquire the concepts of Electronic Devices & Circuits

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

PC1. Observe safety precautions while working.

PC2. • Explain DC series and DC parallel circuits and its utility in electrical
• technology. Use and simulate cycles using various controls.

PC3. Analyze parameters for various machining cycles and operations.

PC4. • Measure power and consumed electrical energy in any electric
• load.

PC5. Explain the working principles of cells and batteries.

PC6. Describe basic principles of electro statics and electro dynamics

PC7. • Explain fundamental of AC, sinusoidal curve, alternating quantity,
• cycle, time period, frequency, instantaneous value, maximum
• value, average value, RMS value.

PC8. • Explain fundamental of AC, sinusoidal curve, alternating quantity,
• cycle, time period, frequency, instantaneous value, maximum
• value, average value, RMS value.

PC9. Identify, test and find the resistance of a resistor.

PC10. Identify, test and find the capacitance of a capacitor

PC11. Know the use of capacitor.

PC12. Manufacture RF coils

PC13. Test inductors and RF coils.

PC14. Manufacture and test transformers.

PC15. Explain the electron transport in semiconductors.

PC16. Explain the operating principle of PN junction.

PC17. Identify and test different types of diodes.

PC18. Test transistor.

PC19. Assemble the amplifier circuit.

PC20. Explain lathe machine.

PC21. Describe the lathe machine parts & accessories

PC22. Describe the different oscillator circuits.

PC23. Assemble various oscillator circuits.

PC24. Test proper working of the oscillator

PC25. • Explain the theory of ripple factor, regulation and efficiency of a
• power supply.

PC26. • Assemble different types of rectifiers (half wave, full wave,
• bridge.

PC27. Explain the pin diagram and working of UA741

PC28. Precautions during handling of Electronic ICs.

PC29. Explain the use of clipping and clamping circuits.

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
MSME/EET/01 Acquire the concepts of Electronic Devices & Circuits	**100**	**-**	**-**	**-**
PC1. Observe safety precautions while working.	-	-	-	-
PC2. • Explain DC series and DC parallel circuits and its utility in electrical • technology. Use and simulate cycles using various controls.	-	-	-	-
PC3. Analyze parameters for various machining cycles and operations.	-	-	-	-
PC4. • Measure power and consumed electrical energy in any electric • load.	-	-	-	-
PC5. Explain the working principles of cells and batteries.	-	-	-	-
PC6. Describe basic principles of electro statics and electro dynamics	-	-	-	-
PC7. • Explain fundamental of AC, sinusoidal curve, alternating quantity, • cycle, time period, frequency, instantaneous value, maximum • value, average value, RMS value.	-	-	-	-
PC8. • Explain fundamental of AC, sinusoidal curve, alternating quantity, • cycle, time period, frequency, instantaneous value, maximum • value, average value, RMS value.	-	-	-	-
PC9. Identify, test and find the resistance of a resistor.	-	-	-	-
PC10. Identify, test and find the capacitance of a capacitor	-	-	-	-
PC11. Know the use of capacitor.	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Manufacture RF coils	-	-	-	-
PC13. Test inductors and RF coils.	-	-	-	-
PC14. Manufacture and test transformers.	-	-	-	-
PC15. Explain the electron transport in semiconductors.	-	-	-	-
PC16. Explain the operating principle of PN junction.	-	-	-	-
PC17. Identify and test different types of diodes.	-	-	-	-
PC18. Test transistor.	-	-	-	-
PC19. Assemble the amplifier circuit.	-	-	-	-
PC20. Explain lathe machine.	-	-	-	-
PC21. Describe the lathe machine parts & accessories	-	-	-	-
PC22. Describe the different oscillator circuits.	-	-	-	-
PC23. Assemble various oscillator circuits.	-	-	-	-
PC24. Test proper working of the oscillator	-	-	-	-
PC25. • Explain the theory of ripple factor, regulation and efficiency of a • power supply.	-	-	-	-
PC26. • Assemble different types of rectifiers (half wave, full wave, • bridge.	-	-	-	-
PC27. Explain the pin diagram and working of UA741	-	-	-	-
PC28. Precautions during handling of Electronic ICs.	-	-	-	-
PC29. Explain the use of clipping and clamping circuits.	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
NOS Total	**100**	**-**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ELE/N2001
NOS Name	Acquire the concepts of Electronic Devices & Circuits
Sector	Electronics
Sub-Sector	
Occupation	Repair and Maintenance
NSQF Level	3.0
Credits	2
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024

MSME/ELE/N2007: Employabilityskills

Description

This NOS unit is about carrying out operations about learners applying basic and advanced Employability Skills concepts in real life situations to become a successful 21st century professional

Scope

The scope covers the following :

- The scope covers the following:
- plan and prepare advance employability skills activities
- carry out the work to plan and prepare the learners to build key knowledge and skills for career
- development in the 21st century using advanced employability skills
- documenting the record

Elements and Performance Criteria

MSME/ES/01 Employability Skills

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

PC1. • Understand the significance of employability skills in meeting the
• job requirements

PC2. • Identify constitutional values, civic rights, duties, personal values
• and ethics and environmentally sustainable practices.

PC3. • Explain 21st Century Skills such as Self-Awareness, Behavior
• Skills, Positive attitude, self-motivation, problem-solving,creative thinking, time management, social and cultural
• awareness, emotional awareness, continuous learning mindset
• etc.

PC4. Speak with others using some basic English phrases or sentences

PC5. Follow good manners while communicating with others

PC6. Work with others in a team

PC7. • Communicate and behave appropriately with all genders and
• PwD

PC8. Report any issues related to sexual harassment

PC9. Use various financial products and services safely and securely

PC10. Calculate income, expenses, savings etc.

PC11. • Approach the concerned authorities for any exploitation as per
• legal rights and laws

PC12. • Operate digital devices and use its features and applications
• securely and safely

PC13. Use internet and social media platforms securely and safely

PC14. Identify and assess opportunities for potential business

PC15. • Identify sources for arranging money and associated financial and
• legal challenges

PC16. Identify different types of customers

PC17. Identify customer needs and address them appropriately.

PC18. Follow appropriate hygiene and grooming standards.

PC19. Create a basic biodata

PC20. Search for suitable jobs and apply

PC21. • Identify and register apprenticeship opportunities as per
• requirement

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
MSME/ES/01 Employability Skills	**100**	**-**	**-**	**-**
PC1. • Understand the significance of employability skills in meeting the • job requirements	-	-	-	-
PC2. • Identify constitutional values, civic rights, duties, personal values • and ethics and environmentally sustainable practices.	-	-	-	-
PC3. • Explain 21st Century Skills such as Self-Awareness, Behavior • Skills, Positive attitude, self-motivation, problem-solving,creative thinking, time management, social and cultural • awareness, emotional awareness, continuous learning mindset • etc.	-	-	-	-
PC4. Speak with others using some basic English phrases or sentences	-	-	-	-
PC5. Follow good manners while communicating with others	-	-	-	-
PC6. Work with others in a team	-	-	-	-
PC7. • Communicate and behave appropriately with all genders and • PwD	-	-	-	-
PC8. Report any issues related to sexual harassment	-	-	-	-
PC9. Use various financial products and services safely and securely	-	-	-	-
PC10. Calculate income, expenses, savings etc.	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. • Approach the concerned authorities for any exploitation as per • legal rights and laws	-	-	-	-
PC12. • Operate digital devices and use its features and applications • securely and safely	-	-	-	-
PC13. Use internet and social media platforms securely and safely	-	-	-	-
PC14. Identify and assess opportunities for potential business	-	-	-	-
PC15. • Identify sources for arranging money and associated financial and • legal challenges	-	-	-	-
PC16. Identify different types of customers	-	-	-	-
PC17. Identify customer needs and address them appropriately.	-	-	-	-
PC18. Follow appropriate hygiene and grooming standards.	-	-	-	-
PC19. Create a basic biodata	-	-	-	-
PC20. Search for suitable jobs and apply	-	-	-	-
PC21. • Identify and register apprenticeship opportunities as per • requirement	-	-	-	-
NOS Total	**100**	**-**	**-**	**-**

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ELE/N2007
NOS Name	Employabilityskills
Sector	Electronics
Sub-Sector	
Occupation	Repair and Maintenance
NSQF Level	3.0
Credits	1
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

As per QP

Minimum Aggregate Passing % at QP Level : 40

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

Minimum Passing % at NOS Level: 40

(**Please note**: A Trainee must score the minimum percentage for each NOS separately as well as on the QP as a whole.)

Assessment Weightage

Compulsory NOS

Qualification Pack

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
MSME/ELE/N2006.Electronics Equipment Repair & Maintenance Skills	-	100	-	-	100	10
MSME/ELE/N2005.Electronics Equipment Repair & Maintenance Skills	100	-	-	-	100	10
MSME/ELE/N2004.Learn and apply Industrial Instrumentation Techniques	-	100	-	-	100	10
MSME/ELE/N2003.Learn and apply Industrial Instrumentation Techniques	100	-	-	-	100	10
MSME/ELE/N2002.Acquire the concepts of Electronic Devices & Circuits	-	100	-	-	100	20
MSME/ELE/N2001.Acquire the concepts of Electronic Devices & Circuits	100	-	-	-	100	20
MSME/ELE/N2007.Employabilityskills	100	-	-	-	100	20
Total	**400**	**300**	**-**	**-**	**700**	**100**

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training

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.