



Qualification Pack



Crane Inspector (Safety)

QP Code: SSD/VSQ/Q0304

Version: 1.0

NSQF Level: 5.5

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SSD/VSQ/Q0304: Crane Inspector (Safety)

Brief Job Description

A Crane Inspector (Safety) is responsible for ensuring that the lifting equipments are safe to operate and compliant with industry regulations. He will carry out thorough inspection before starting lifting operations and during regular scheduled maintenance to identify any potential hazards or areas of non-compliance. He will also verify the authenticity and completeness of testing reports, maintenance logs, and certificates issued by competent authorities. This role requires a combination of technical expertise, regulatory knowledge, and analytical skills to ensure the safety of workers, equipment, and the surrounding environment.

Personal Attributes

The professional should be mentally and professionally fit to take responsibility of compliances of health and safety standards, rules and meet the health and safety standards at workplace with his/her integrity, objectivity, independency, knowledge of law, expression, and code of ethics.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [SSD/VSQ/N0327: Introduction to Lifting and Rigging Operations](#)
2. [SSD/VSQ/N0328: Crane Operational Mechanisms and Systems](#)
3. [SSD/VSQ/N0329: Inspection, Maintenance, and Certification of Lifting Equipment](#)
4. [SSD/VSQ/N0330: Legal and Regulatory Compliance for Lifting Operations](#)
5. [SSD/VSQ/N0331: Hazard Identification, Risk Assessment, and Incident Reporting in Lifting Operation](#)
6. [SSD/VSQ/N0332: Safety of Plant, Machinery, and Vehicle in Lifting Operation](#)
7. [SSD/VSQ/N0333: Planning and Organizing Lifting and Rigging Emergency Protocols](#)
8. [SSD/VSQ/N0334: Load Planning and Stability Control in Lifting Operation](#)
9. [SSD/VSQ/N0335: Communication and Team Coordination in Lifting Operations](#)
10. [SSD/VSQ/N0336: Health, Hygiene and Environment Protocols for Lifting & Rigging Operations](#)
11. [DGT/VSQ/N0102: Employability Skills \(60 Hours\)](#)



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Qualification Pack (QP) Parameters

Sector	Cross Sectoral
Sub-Sector	Hydrocarbon, Iron & steel, Mining, Power, Automotive, Construction, Chemicals & Petrochemicals, and others.
Occupation	Lifting & Rigging Engineering & Management
Country	India
NSQF Level	5.5
Credits	20
Aligned to NCO/ISCO/ISIC Code	NCO-2015/ 8343.1600
Minimum Educational Qualification & Experience	Completed 4 year UG program with NA of experience OR Completed 3 year diploma after 10th with 3 Years of experience OR 10th grade pass plus 2-year NTC with 3-5 Years of experience (4.5 Years) OR Previous relevant Qualification of NSQF Level (5) with 1-2 Years of experience (1.5 Years) OR Previous relevant Qualification of NSQF Level (4.5) with 3 Years of experience
Minimum Level of Education for Training in School	10th Class
Pre-Requisite License or Training	Nil
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	22/10/2027
NSQF Approval Date	22/10/2024
Version	1.0
Reference code on NQR	QC-5.5-CO-03363-2024-V1-SSDF
NQR Version	1.0



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Remarks:

NA



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SSD/VSQ/N0327: Introduction to Lifting and Rigging Operations

Description

This NOS provides a foundational understanding of lifting and rigging operations along with the roles and responsibilities of personnel involved, including Crane Safety Inspectors, Crane Operators, Riggers, and Rigging Supervisors. It equips individuals with the necessary knowledge of lifting operations, personnel coordination, safety procedures, and compliance requirements. This NOS emphasizes the importance of each role in ensuring safe and efficient operations and minimizing risks.

Scope

The scope covers the following :

- Understand the fundamentals of lifting and rigging operations.
- The roles, responsibilities, and functions of key personnel involved in lifting operations.
- Identify safety requirements and protocols for effective team collaboration.
- Communication and compliance with safety standards.

Elements and Performance Criteria

Understand Fundamentals of Lifting and Rigging Operations

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

- PC1.** Explain the principles of lifting, rigging, and load handling.
- PC2.** Identify common tools and equipment used in lifting operations (e.g., cranes, slings, hooks).
- PC3.** Describe the importance of load stability and correct sling angles for safe lifting.
- PC4.** Identify the safety hazards associated with lifting and rigging operations.

Identify Roles and Responsibilities of Key Personnel

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

- PC5.** Explain the role of the Crane Safety Inspector in ensuring compliance with safety standards.
- PC6.** Outline the responsibilities of Crane Operators in executing safe lifts.
- PC7.** Describe the duties of Riggers in load preparation and guiding lifts.
- PC8.** Identify the role of the Rigging Supervisor in overseeing rigging activities and ensuring team coordination.

Apply Safety Procedures in Lifting Operations

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

- PC9.** Demonstrate knowledge of pre-operation safety checks.
- PC10.** Explain the importance of personal protective equipment (PPE) in lifting operations.
- PC11.** Identify common safety protocols such as lockout/tagout procedures and emergency controls.
- PC12.** Monitor compliance with safety standards during operations to minimize risks.
- PC13.** Use appropriate communication tools (e.g., radios, hand signals) to coordinate with team members.



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Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Principles of lifting operations and load handling.
- KU2.** Types of lifting equipment (e.g., mobile cranes, tower cranes) and their applications.
- KU3.** Duties of Crane Safety Inspectors, Crane Operators, Riggers, and Rigging Supervisors.
- KU4.** Importance of collaboration among team members during lifting operations.
- KU5.** National and international safety standards (e.g., OSHA, ISO, LOLER).
- KU6.** Importance of PPE, lockout/tagout procedures, and emergency controls.
- KU7.** Use of communication tools such as radios and hand signals.
- KU8.** Best practices for teamwork and conflict resolution in lifting operations.
- KU9.** Methods for monitoring and ensuring compliance with safety standards.
- KU10.** Importance of post-operation debriefs to improve safety and efficiency.

Generic Skills (GS)

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

- GS1.** Reading & writing in the language of communication.
- GS2.** Effective verbal communication in local language.
- GS3.** Basic mathematics and calculations.
- GS4.** Understanding of safety and adherence to safety related protocols.
- GS5.** Conduct of Professional behavior with co-workers and employees.
- GS6.** Use of personal protective equipment.
- GS7.** Work site rules & security, fire safety protocols, first aid & procedure under emergency conditions.
- GS8.** Housekeeping and disposal of waste materials.
- GS9.** Strong focus on safety standards, ensuring a safe working environment, and implementing preventative measures.
- GS10.** Attentive, providing feedback & proposing solutions to operational challenges.



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Understand Fundamentals of Lifting and Rigging Operations</i>	16	16	-	-
PC1. Explain the principles of lifting, rigging, and load handling.	4	4	-	-
PC2. Identify common tools and equipment used in lifting operations (e.g., cranes, slings, hooks).	4	4	-	-
PC3. Describe the importance of load stability and correct sling angles for safe lifting.	4	4	-	-
PC4. Identify the safety hazards associated with lifting and rigging operations.	4	4	-	-
<i>Identify Roles and Responsibilities of Key Personnel</i>	16	16	-	-
PC5. Explain the role of the Crane Safety Inspector in ensuring compliance with safety standards.	4	4	-	-
PC6. Outline the responsibilities of Crane Operators in executing safe lifts.	4	4	-	-
PC7. Describe the duties of Riggers in load preparation and guiding lifts.	4	4	-	-
PC8. Identify the role of the Rigging Supervisor in overseeing rigging activities and ensuring team coordination.	4	4	-	-
<i>Apply Safety Procedures in Lifting Operations</i>	18	18	-	-
PC9. Demonstrate knowledge of pre-operation safety checks.	4	4	-	-
PC10. Explain the importance of personal protective equipment (PPE) in lifting operations.	4	4	-	-
PC11. Identify common safety protocols such as lockout/tagout procedures and emergency controls.	4	4	-	-
PC12. Monitor compliance with safety standards during operations to minimize risks.	3	3	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC13. Use appropriate communication tools (e.g., radios, hand signals) to coordinate with team members.	3	3	-	-
NOS Total	50	50	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	SSD/VSQ/N0327
NOS Name	Introduction to Lifting and Rigging Operations
Sector	Cross Sectoral
Sub-Sector	
Occupation	Lifting & Rigging Engineering & Management
NSQF Level	5.5
Credits	2
Version	1.0
Last Reviewed Date	22/10/2024
Next Review Date	22/10/2027
NSQC Clearance Date	22/10/2024



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SSD/VSQ/N0328: Crane Operational Mechanisms and Systems

Description

This NOS provides a detailed understanding of the mechanical, electrical, hydraulic, and operational systems that power different types of cranes. It ensures that personnel involved in crane safety inspections, maintenance, and operations can identify how these systems function, detect malfunctions, and ensure that cranes are operated efficiently and safely. The aim is to equip learners with the technical knowledge required for operating, inspecting, and maintaining cranes to prevent equipment failure and accidents.

Scope

The scope covers the following :

- Understand the operational mechanisms of different types of cranes (e.g., mobile, tower, overhead cranes).
- Hydraulic, mechanical, and electrical systems involved in crane operation.
- Detect malfunctions and irregularities in crane systems.
- Safety requirements, safety features, braking systems, and load indicators.
- Equipment maintenance to prevent downtime and accidents.

Elements and Performance Criteria

Understand Mechanical and Structural Components

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

- PC1.** Identify key mechanical components such as booms, hooks, slings, and gears.
- PC2.** Explain how boom types (e.g., telescopic, articulated) affect operations.
- PC3.** Describe the role of counterweights in ensuring crane stability.

Understand Hydraulic and Electrical Systems

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

- PC4.** Explain the role of hydraulic systems in crane movements (e.g., lifting, lowering).
- PC5.** Identify electrical components such as control systems, motors, and sensors.
- PC6.** Detect common malfunctions in hydraulic and electrical systems.

Apply Knowledge of Safety Mechanisms

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

- PC7.** Understand the operation of braking systems to prevent unintended movement.
- PC8.** Explain the role of safety features such as anti-two-block systems and limit switches.
- PC9.** Use load indicators and charts to monitor crane capacity.

Ensure Routine Maintenance and Fault Detection

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

- PC10.** Conduct basic troubleshooting for hydraulic, mechanical, and electrical faults.
- PC11.** Ensure that all systems are maintained according to manufacturer's guidelines.
- PC12.** Maintain documents and report any faults to the appropriate personnel.



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Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Structural components such as booms, hooks, slings, pulleys, and gears.
- KU2.** Functions of telescopic and articulated booms for different operations.
- KU3.** Hydraulic cylinders, motors, and their role in crane operation.
- KU4.** Electrical components such as control panels, motors, sensors, and safety systems.
- KU5.** Operation of braking systems, anti-two-block systems, and limit switches.
- KU6.** Use of load indicators and charts to ensure compliance with capacity limits.
- KU7.** Basic troubleshooting techniques for hydraulic and electrical faults.
- KU8.** Documentation and reporting procedures for maintenance activities.
- KU9.** Factors affecting crane operations in construction, industrial, and port environments.
- KU10.** Influence of environmental conditions (e.g., wind, uneven surfaces) on operations.

Generic Skills (GS)

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

- GS1.** Reading & writing in the language of communication.
- GS2.** Effective verbal communication in local language.
- GS3.** Basic mathematics and calculations.
- GS4.** Understanding of safety and adherence to safety related protocols.
- GS5.** Conduct of Professional behavior with co-workers and employees.
- GS6.** Use of personal protective equipment.
- GS7.** Work site rules & security, fire safety protocols, first aid & procedure under emergency conditions.
- GS8.** Housekeeping and disposal of waste materials.
- GS9.** Strong focus on safety standards, ensuring a safe working environment, and implementing preventative measures.
- GS10.** Attentive, providing feedback & proposing solutions to operational challenges.



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Understand Mechanical and Structural Components</i>	14	14	-	-
PC1. Identify key mechanical components such as booms, hooks, slings, and gears.	5	5	-	-
PC2. Explain how boom types (e.g., telescopic, articulated) affect operations.	5	5	-	-
PC3. Describe the role of counterweights in ensuring crane stability.	4	4	-	-
<i>Understand Hydraulic and Electrical Systems</i>	12	12	-	-
PC4. Explain the role of hydraulic systems in crane movements (e.g., lifting, lowering).	4	4	-	-
PC5. Identify electrical components such as control systems, motors, and sensors.	4	4	-	-
PC6. Detect common malfunctions in hydraulic and electrical systems.	4	4	-	-
<i>Apply Knowledge of Safety Mechanisms</i>	12	12	-	-
PC7. Understand the operation of braking systems to prevent unintended movement.	4	4	-	-
PC8. Explain the role of safety features such as anti-two-block systems and limit switches.	4	4	-	-
PC9. Use load indicators and charts to monitor crane capacity.	4	4	-	-
<i>Ensure Routine Maintenance and Fault Detection</i>	12	12	-	-
PC10. Conduct basic troubleshooting for hydraulic, mechanical, and electrical faults.	4	4	-	-
PC11. Ensure that all systems are maintained according to manufacturer's guidelines.	4	4	-	-
PC12. Maintain documents and report any faults to the appropriate personnel.	4	4	-	-
NOS Total	50	50	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	SSD/VSQ/N0328
NOS Name	Crane Operational Mechanisms and Systems
Sector	Cross Sectoral
Sub-Sector	
Occupation	Lifting & Rigging Engineering & Management
NSQF Level	5.5
Credits	2
Version	1.0
Last Reviewed Date	22/10/2024
Next Review Date	22/10/2027
NSQC Clearance Date	22/10/2024



Qualification Pack

SSD/VSQ/N0329: Inspection, Maintenance, and Certification of Lifting Equipment

Description

This NOS provides essential knowledge and skills required for the inspection, maintenance, and certification of cranes and other lifting equipment. The focus is on ensuring that all equipment is in optimal working condition, meets safety standards, and complies with regulatory requirements. It emphasizes pre-operation inspections, regular maintenance schedules, identifying faults, and ensuring proper documentation for certification and audits.

Scope

The scope covers the following :

- Conduct pre-operation and scheduled inspections of lifting equipment.
- Perform maintenance activities according to manufacturer guidelines.
- Identify and report defects, malfunctions, and non-compliance.
- Ensure certification and testing documentation is valid and up-to-date.
- Coordinate with technicians and operators to ensure proper equipment functionality.

Elements and Performance Criteria

Conduct Pre-Operation and Scheduled Inspections

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

- PC1.** Perform visual inspections of equipment components for signs of wear and damage.
- PC2.** Ensure that safety devices and indicators are functional.
- PC3.** Check the condition of slings, hooks, pulleys, ropes, and other lifting gear.

Perform Routine Maintenance and Repairs

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

- PC4.** Conduct maintenance activities according to manufacturer's guidelines.
- PC5.** Identify minor faults and perform necessary repairs.
- PC6.** Coordinate with maintenance teams for major repairs and replacements.

Ensure Certification and Compliance

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

- PC7.** Verify that all equipment complies with national and international safety standards (e.g., OSHA, LOLER).
- PC8.** Ensure that testing certificates and maintenance records are valid and accessible.
- PC9.** Prepare documentation for audits and certifications as required.

Report Defects and Non-Compliance Issues

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

- PC10.** Document any identified defects, faults, or non-compliance issues.
- PC11.** Report findings to relevant personnel for corrective action.
- PC12.** Monitor and follow up on corrective actions to ensure compliance.



Qualification Pack

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Methods for inspecting hooks, ropes, pulleys, and other components for wear and damage.
- KU2.** Techniques for testing safety indicators and devices.
- KU3.** Routine maintenance tasks as per manufacturer recommendations.
- KU4.** Methods for troubleshooting and repairing minor faults in lifting equipment.
- KU5.** National and international standards (e.g., OSHA, LOLER, ISO 45001).
- KU6.** Documentation requirements for audits and certifications.
- KU7.** Procedures for recording inspection results and maintenance activities.
- KU8.** Best practices for reporting defects and non-compliance issues.
- KU9.** Effective communication with maintenance personnel and supervisors.
- KU10.** Ensuring timely coordination for major repairs and inspections.

Generic Skills (GS)

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

- GS1.** Reading & writing in the language of communication.
- GS2.** Effective verbal communication in local language.
- GS3.** Basic mathematics and calculations.
- GS4.** Understanding of safety and adherence to safety related protocols.
- GS5.** Conduct of Professional behavior with co-workers and employees.
- GS6.** Use of personal protective equipment.
- GS7.** Work site rules & security, fire safety protocols, first aid & procedure under emergency conditions.
- GS8.** Housekeeping and disposal of waste materials.
- GS9.** Strong focus on safety standards, ensuring a safe working environment, and implementing preventative measures.
- GS10.** Attentive, providing feedback & proposing solutions to operational challenges.



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Conduct Pre-Operation and Scheduled Inspections</i>	14	14	-	-
PC1. Perform visual inspections of equipment components for signs of wear and damage.	5	5	-	-
PC2. Ensure that safety devices and indicators are functional.	5	5	-	-
PC3. Check the condition of slings, hooks, pulleys, ropes, and other lifting gear.	4	4	-	-
<i>Perform Routine Maintenance and Repairs</i>	12	12	-	-
PC4. Conduct maintenance activities according to manufacturer's guidelines.	4	4	-	-
PC5. Identify minor faults and perform necessary repairs.	4	4	-	-
PC6. Coordinate with maintenance teams for major repairs and replacements.	4	4	-	-
<i>Ensure Certification and Compliance</i>	12	12	-	-
PC7. Verify that all equipment complies with national and international safety standards (e.g., OSHA, LOLER).	4	4	-	-
PC8. Ensure that testing certificates and maintenance records are valid and accessible.	4	4	-	-
PC9. Prepare documentation for audits and certifications as required.	4	4	-	-
<i>Report Defects and Non-Compliance Issues</i>	12	12	-	-
PC10. Document any identified defects, faults, or non-compliance issues.	4	4	-	-
PC11. Report findings to relevant personnel for corrective action.	4	4	-	-
PC12. Monitor and follow up on corrective actions to ensure compliance.	4	4	-	-
NOS Total	50	50	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	SSD/VSQ/N0329
NOS Name	Inspection, Maintenance, and Certification of Lifting Equipment
Sector	Cross Sectoral
Sub-Sector	
Occupation	Lifting & Rigging Engineering & Management
NSQF Level	5.5
Credits	2
Version	1.0
Last Reviewed Date	22/10/2024
Next Review Date	22/10/2027
NSQC Clearance Date	22/10/2024



Qualification Pack

SSD/VSQ/N0330: Legal and Regulatory Compliance for Lifting Operations

Description

This NOS focuses on the knowledge and skills required to ensure compliance with national and international legal standards governing lifting operations. It aims to equip individuals with the ability to understand statutory regulations, organizational policies, and industry standards such as OSHA, LOLER, and ISO 45001. The goal is to ensure that all lifting operations are performed safely and in accordance with regulatory requirements, minimizing risks, legal liabilities, and operational disruptions.

Scope

The scope covers the following :

- Application of national and international safety standards.
- Compliance with certification and operational guidelines.
- Lifting operations alignment with organizational safety policies.
- Documenting and reporting non-compliance issues.
- Preparation and management of regulatory audits and inspections.

Elements and Performance Criteria

Understand National and International Safety Standards

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

- PC1.** Identify and interpret relevant national and international standards (e.g., OSHA, LOLER, ISO 45001).
- PC2.** Ensure lifting operations align with legal and safety standards.
- PC3.** Communicate regulatory requirements to operational teams.

Ensure Compliance with Organizational Safety Policies

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

- PC4.** Verify that all procedures comply with organizational safety protocols.
- PC5.** Actively monitor lifting operations to ensure adherence to established policies and procedures, promoting safe and compliant practices.
- PC6.** Identify and report any non-compliance issues to the relevant authorities.

Manage Certification and Documentation

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

- PC7.** Ensure all equipment certifications and safety inspections are up to date.
- PC8.** Maintain accurate documentation of audits, inspections, and certifications.
- PC9.** Prepare documentation for regulatory audits and internal reviews.

Report Non-Compliance and Implement Corrective Actions

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

- PC10.** Identify and document any incidents of non-compliance.
- PC11.** Report non-compliance to appropriate personnel and external authorities.
- PC12.** Implement corrective actions to address non-compliance and prevent recurrence.



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Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Key regulations such as OSHA, LOLER, ISO 45001, and national safety guidelines.
- KU2.** Legal requirements for equipment certification, inspections, and reporting.
- KU3.** Company-specific safety protocols.
- KU4.** Procedures for monitoring and ensuring compliance with policies.
- KU5.** Best practices for maintaining accurate records of inspections and certifications.
- KU6.** Preparing documentation for regulatory audits and compliance reviews.
- KU7.** Methods for reporting non-compliance incidents and violations.
- KU8.** Procedures for conducting root-cause analysis and implementing corrective actions.
- KU9.** Preparing for regulatory audits and inspections.
- KU10.** Collaborating with external inspectors and auditors during reviews.

Generic Skills (GS)

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

- GS1.** Reading & writing in the language of communication.
- GS2.** Effective verbal communication in local language.
- GS3.** Basic mathematics and calculations.
- GS4.** Understanding of safety and adherence to safety related protocols.
- GS5.** Conduct of Professional behavior with co-workers and employees.
- GS6.** Use of personal protective equipment.
- GS7.** Work site rules & security, fire safety protocols, first aid & procedure under emergency conditions.
- GS8.** Housekeeping and disposal of waste materials.
- GS9.** Strong focus on safety standards, ensuring a safe working environment, and implementing preventative measures.
- GS10.** Attentive, providing feedback & proposing solutions to operational challenges.



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Understand National and International Safety Standards</i>	14	14	-	-
PC1. Identify and interpret relevant national and international standards (e.g., OSHA, LOLER, ISO 45001).	5	5	-	-
PC2. Ensure lifting operations align with legal and safety standards.	5	5	-	-
PC3. Communicate regulatory requirements to operational teams.	4	4	-	-
<i>Ensure Compliance with Organizational Safety Policies</i>	12	12	-	-
PC4. Verify that all procedures comply with organizational safety protocols.	4	4	-	-
PC5. Actively monitor lifting operations to ensure adherence to established policies and procedures, promoting safe and compliant practices.	4	4	-	-
PC6. Identify and report any non-compliance issues to the relevant authorities.	4	4	-	-
<i>Manage Certification and Documentation</i>	12	12	-	-
PC7. Ensure all equipment certifications and safety inspections are up to date.	4	4	-	-
PC8. Maintain accurate documentation of audits, inspections, and certifications.	4	4	-	-
PC9. Prepare documentation for regulatory audits and internal reviews.	4	4	-	-
<i>Report Non-Compliance and Implement Corrective Actions</i>	12	12	-	-
PC10. Identify and document any incidents of non-compliance.	4	4	-	-
PC11. Report non-compliance to appropriate personnel and external authorities.	4	4	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Implement corrective actions to address non-compliance and prevent recurrence.	4	4	-	-
NOS Total	50	50	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	SSD/VSQ/N0330
NOS Name	Legal and Regulatory Compliance for Lifting Operations
Sector	Cross Sectoral
Sub-Sector	
Occupation	Lifting & Rigging Engineering & Management
NSQF Level	5.5
Credits	2
Version	1.0
Last Reviewed Date	22/10/2024
Next Review Date	22/10/2027
NSQC Clearance Date	22/10/2024



Qualification Pack

SSD/VSQ/N0331: Hazard Identification, Risk Assessment, and Incident Reporting in Lifting Operation

Description

This NOS focuses on the essential skills required for identifying hazards, conducting risk assessments, and reporting incidents to ensure safe operations in crane and lifting activities. The aim is to equip learners with the ability to proactively detect risks, mitigate hazards, and follow proper incident reporting procedures to prevent accidents. This NOS is crucial for maintaining safety standards, reducing downtime, and promoting continuous improvement in workplace operations.

Scope

The scope covers the following :

- Identify hazards related to crane and lifting operations.
- Conduct risk assessments to evaluate and prioritize risks.
- Implement preventive and corrective actions to reduce risks.
- Report incidents, near-misses, and safety violations effectively.
- Maintain incident records and ensuring corrective actions are documented.

Elements and Performance Criteria

Identify Hazards in Lifting Operations

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

- PC1.** Identify potential hazards associated with cranes, equipment, and site conditions.
- PC2.** Recognize environmental factors (e.g., high winds, uneven surfaces) that could impact operations.
- PC3.** Monitor equipment for wear, defects, or malfunctions that may cause risks.

Conduct Risk Assessments and Mitigate Hazards

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

- PC4.** Perform risk assessments to determine the likelihood and impact of identified hazards.
- PC5.** Develop and implement preventive measures to mitigate risks.
- PC6.** Communicate identified risks and control measures to team members.

Report Incidents and Near-Misses

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

- PC7.** Document and report incidents, near-misses, and safety violations promptly.
- PC8.** Ensure incident reports are aligned with organizational procedures and standards.
- PC9.** Conduct root-cause analysis to determine underlying factors for incidents.

Maintain Records and Follow Corrective Actions

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

- PC10.** Maintain detailed records of incidents and corrective actions taken.
- PC11.** Monitor and verify the implementation of corrective measures.
- PC12.** Participate in safety audits and provide input for continuous improvement.



Qualification Pack

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Common hazards associated with crane operations and lifting activities.
- KU2.** Environmental factors (e.g., weather conditions) affecting safety.
- KU3.** Techniques for conducting risk assessments using risk matrices and scoring.
- KU4.** Methods for prioritizing risks and implementing control measures.
- KU5.** Best practices for documenting and reporting incidents and near-misses.
- KU6.** Importance of root-cause analysis for incident prevention.
- KU7.** Procedures for following up on corrective actions to prevent future risks.
- KU8.** Role of safety audits in identifying gaps and ensuring continuous improvement.
- KU9.** Effective communication of risks and safety measures to team members.
- KU10.** Documentation requirements for incident records and compliance audits.

Generic Skills (GS)

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

- GS1.** Reading & writing in the language of communication.
- GS2.** Effective verbal communication in local language.
- GS3.** Basic mathematics and calculations.
- GS4.** Understanding of safety and adherence to safety related protocols.
- GS5.** Conduct of Professional behavior with co-workers and employees.
- GS6.** Use of personal protective equipment.
- GS7.** Work site rules & security, fire safety protocols, first aid & procedure under emergency conditions.
- GS8.** Housekeeping and disposal of waste materials.
- GS9.** Strong focus on safety standards, ensuring a safe working environment, and implementing preventative measures.
- GS10.** Attentive, providing feedback & proposing solutions to operational challenges.



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Identify Hazards in Lifting Operations</i>	14	14	-	-
PC1. Identify potential hazards associated with cranes, equipment, and site conditions.	5	5	-	-
PC2. Recognize environmental factors (e.g., high winds, uneven surfaces) that could impact operations.	5	5	-	-
PC3. Monitor equipment for wear, defects, or malfunctions that may cause risks.	4	4	-	-
<i>Conduct Risk Assessments and Mitigate Hazards</i>	12	12	-	-
PC4. Perform risk assessments to determine the likelihood and impact of identified hazards.	4	4	-	-
PC5. Develop and implement preventive measures to mitigate risks.	4	4	-	-
PC6. Communicate identified risks and control measures to team members.	4	4	-	-
<i>Report Incidents and Near-Misses</i>	12	12	-	-
PC7. Document and report incidents, near-misses, and safety violations promptly.	4	4	-	-
PC8. Ensure incident reports are aligned with organizational procedures and standards.	4	4	-	-
PC9. Conduct root-cause analysis to determine underlying factors for incidents.	4	4	-	-
<i>Maintain Records and Follow Corrective Actions</i>	12	12	-	-
PC10. Maintain detailed records of incidents and corrective actions taken.	4	4	-	-
PC11. Monitor and verify the implementation of corrective measures.	4	4	-	-
PC12. Participate in safety audits and provide input for continuous improvement.	4	4	-	-
NOS Total	50	50	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	SSD/VSQ/N0331
NOS Name	Hazard Identification, Risk Assessment, and Incident Reporting in Lifting Operation
Sector	Cross Sectoral
Sub-Sector	
Occupation	Lifting & Rigging Engineering & Management
NSQF Level	5.5
Credits	2
Version	1.0
Last Reviewed Date	22/10/2024
Next Review Date	22/10/2027
NSQC Clearance Date	22/10/2024



Qualification Pack

SSD/VSQ/N0332: Safety of Plant, Machinery, and Vehicle in Lifting Operation

Description

This NOS provides essential knowledge and skills required to ensure the safe operation of plant, machinery, and vehicles at work sites, including those involved in lifting and rigging operations. The focus is on identifying potential risks, following safety protocols, conducting inspections, and ensuring that operations are carried out in accordance with safety standards to prevent accidents, equipment damage, and operational delays. This NOS aims to promote a safe working environment for all personnel working with or near machinery and vehicles.

Scope

The scope covers the following :

- Ensure safe operation of machinery, plant, and vehicles at work sites.
- Conduct inspections and maintenance to detect faults and malfunctions.
- Implement and monitor safety protocols to prevent accidents.
- Coordinate with operators, supervisors, and safety teams to ensure compliance.
- Manage vehicles, personnel, and equipment in dynamic environments.

Elements and Performance Criteria

Ensure Safe Operations of Plant, Machinery, and Vehicles

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

- PC1.** Monitor the safe handling and operation of plant, machinery, and vehicles at work sites.
- PC2.** Ensure operators follow manufacturer's instructions and safety guidelines.
- PC3.** Verify that all personnel are using the appropriate personal protective equipment (PPE).

Conduct Inspections and Fault Detection

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

- PC4.** Perform pre-operation inspections of machinery, plant, and vehicles to identify faults.
- PC5.** Detect any wear, damage, or malfunctions and report them to the maintenance team.
- PC6.** Document inspection results and ensure that any faults are addressed promptly.

Implement Safety Protocols to Prevent Accidents

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

- PC7.** Ensure that safety protocols, such as lockout/tagout procedures, are followed during maintenance.
- PC8.** Monitor the interaction of vehicles and personnel to prevent accidents.
- PC9.** Identify and mitigate environmental risks, such as uneven surfaces or weather conditions.

Coordinate with Teams and Ensure Compliance

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

- PC10.** Collaborate with machine operators, supervisors, and safety officers to ensure compliance.
- PC11.** Ensure compliance with statutory and organizational safety standards.



Qualification Pack

PC12. Participate in safety briefings and provide input for continuous improvement.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Types of machinery and vehicles used at construction and industrial sites.
- KU2.** Safe operating procedures for cranes, forklifts, and other equipment.
- KU3.** Methods for conducting pre-operation inspections and identifying faults.
- KU4.** Lockout/tagout procedures and their importance.
- KU5.** National and international safety standards (e.g., OSHA, ISO 45001).
- KU6.** Company policies for the safe operation of machinery and vehicles.
- KU7.** Identifying potential risks associated with machinery and vehicle operations.
- KU8.** Strategies for mitigating risks, such as managing environmental conditions.
- KU9.** Effective communication with operators, supervisors, and safety teams.
- KU10.** Importance of participating in safety briefings and reporting issues promptly.

Generic Skills (GS)

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

- GS1.** Reading & writing in the language of communication.
- GS2.** Effective verbal communication in local language.
- GS3.** Basic mathematics and calculations.
- GS4.** Understanding of safety and adherence to safety related protocols.
- GS5.** Conduct of Professional behavior with co-workers and employees.
- GS6.** Use of personal protective equipment.
- GS7.** Work site rules & security, fire safety protocols, first aid & procedure under emergency conditions.
- GS8.** Housekeeping and disposal of waste materials.
- GS9.** Strong focus on safety standards, ensuring a safe working environment, and implementing preventative measures.
- GS10.** Attentive, providing feedback & proposing solutions to operational challenges.



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Ensure Safe Operations of Plant, Machinery, and Vehicles</i>	14	14	-	-
PC1. Monitor the safe handling and operation of plant, machinery, and vehicles at work sites.	5	5	-	-
PC2. Ensure operators follow manufacturer's instructions and safety guidelines.	5	5	-	-
PC3. Verify that all personnel are using the appropriate personal protective equipment (PPE).	4	4	-	-
<i>Conduct Inspections and Fault Detection</i>	12	12	-	-
PC4. Perform pre-operation inspections of machinery, plant, and vehicles to identify faults.	4	4	-	-
PC5. Detect any wear, damage, or malfunctions and report them to the maintenance team.	4	4	-	-
PC6. Document inspection results and ensure that any faults are addressed promptly.	4	4	-	-
<i>Implement Safety Protocols to Prevent Accidents</i>	12	12	-	-
PC7. Ensure that safety protocols, such as lockout/tagout procedures, are followed during maintenance.	4	4	-	-
PC8. Monitor the interaction of vehicles and personnel to prevent accidents.	4	4	-	-
PC9. Identify and mitigate environmental risks, such as uneven surfaces or weather conditions.	4	4	-	-
<i>Coordinate with Teams and Ensure Compliance</i>	12	12	-	-
PC10. Collaborate with machine operators, supervisors, and safety officers to ensure compliance.	4	4	-	-
PC11. Ensure compliance with statutory and organizational safety standards.	4	4	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Participate in safety briefings and provide input for continuous improvement.	4	4	-	-
NOS Total	50	50	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	SSD/VSQ/N0332
NOS Name	Safety of Plant, Machinery, and Vehicle in Lifting Operation
Sector	Cross Sectoral
Sub-Sector	
Occupation	Lifting & Rigging Engineering & Management
NSQF Level	5.5
Credits	2
Version	1.0
Last Reviewed Date	22/10/2024
Next Review Date	22/10/2027
NSQC Clearance Date	22/10/2024



Qualification Pack

SSD/VSQ/N0333: Planning and Organizing Lifting and Rigging Emergency Protocols

Description

This NOS focuses on developing skills required to plan, organize, and manage emergency protocols during lifting and rigging operations. It equips individuals with the knowledge to anticipate potential emergencies, coordinate team actions, and implement emergency response procedures effectively. The goal is to ensure that all personnel are prepared to respond swiftly to equipment failures, accidents, or hazardous situations, minimizing risks and preventing injuries or damage.

Scope

The scope covers the following :

- Identify potential emergencies and risks during lifting and rigging operations.
- Develop and implement emergency response plans.
- Coordinate with operators, riggers, supervisors, and safety personnel.
- Conduct emergency drills and simulations to improve preparedness.
- Ensure compliance with emergency management policies and regulations.

Elements and Performance Criteria

Identify Potential Emergencies and Risks

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

- PC1.** Identify common emergencies such as equipment failures, load slippage, or environmental hazards.
- PC2.** Assess site conditions and risks that could lead to emergencies.
- PC3.** Monitor equipment and team activities to detect early signs of potential emergencies.

Develop and Implement Emergency Response Plans

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

- PC4.** Prepare detailed emergency response plans aligned with organizational policies.
- PC5.** Define the roles and responsibilities of team members during emergencies.
- PC6.** Ensure the availability and functionality of emergency equipment, such as alarms, fire extinguishers, and rescue kits.

Coordinate Emergency Protocols and Team Actions

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

- PC7.** Coordinate with crane operators, riggers, and supervisors to ensure smooth execution of emergency protocols.
- PC8.** Establish clear lines of communication and designate emergency leaders.
- PC9.** Monitor compliance with emergency procedures during lifting operations.

Conduct Drills, Simulations, and Post-Incident Reviews

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

- PC10.** Organize regular emergency drills and simulations to enhance team preparedness.



Qualification Pack

PC11. Document and evaluate the effectiveness of drills and protocols.

PC12. Conduct post-incident reviews to identify gaps and improve future responses.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Emergency situations in lifting operations, such as load instability, crane malfunctions, and environmental hazards.
- KU2.** Procedures for quick load detachment and shutdown of equipment.
- KU3.** Methods for developing emergency response plans aligned with company policies.
- KU4.** Procedures for documenting incidents and emergency drills.
- KU5.** Importance of assigning clear roles and responsibilities during emergencies.
- KU6.** Techniques for coordinating actions and communication between team members.
- KU7.** Safety regulations and emergency protocols applicable to lifting operations (e.g., OSHA, ISO 45001).
- KU8.** Methods for evaluating drills and post-incident reviews to improve response times and team readiness.

Generic Skills (GS)

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

- GS1.** Reading & writing in the language of communication.
- GS2.** Effective verbal communication in local language.
- GS3.** Basic mathematics and calculations.
- GS4.** Understanding of safety and adherence to safety related protocols.
- GS5.** Conduct of Professional behavior with co-workers and employees.
- GS6.** Use of personal protective equipment.
- GS7.** Work site rules & security, fire safety protocols, first aid & procedure under emergency conditions.
- GS8.** Housekeeping and disposal of waste materials.
- GS9.** Strong focus on safety standards, ensuring a safe working environment, and implementing preventative measures.
- GS10.** Attentive, providing feedback & proposing solutions to operational challenges.



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Identify Potential Emergencies and Risks</i>	14	14	-	-
PC1. Identify common emergencies such as equipment failures, load slippage, or environmental hazards.	5	5	-	-
PC2. Assess site conditions and risks that could lead to emergencies.	5	5	-	-
PC3. Monitor equipment and team activities to detect early signs of potential emergencies.	4	4	-	-
<i>Develop and Implement Emergency Response Plans</i>	12	12	-	-
PC4. Prepare detailed emergency response plans aligned with organizational policies.	4	4	-	-
PC5. Define the roles and responsibilities of team members during emergencies.	4	4	-	-
PC6. Ensure the availability and functionality of emergency equipment, such as alarms, fire extinguishers, and rescue kits.	4	4	-	-
<i>Coordinate Emergency Protocols and Team Actions</i>	12	12	-	-
PC7. Coordinate with crane operators, riggers, and supervisors to ensure smooth execution of emergency protocols.	4	4	-	-
PC8. Establish clear lines of communication and designate emergency leaders.	4	4	-	-
PC9. Monitor compliance with emergency procedures during lifting operations.	4	4	-	-
<i>Conduct Drills, Simulations, and Post-Incident Reviews</i>	12	12	-	-
PC10. Organize regular emergency drills and simulations to enhance team preparedness.	4	4	-	-
PC11. Document and evaluate the effectiveness of drills and protocols.	4	4	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Conduct post-incident reviews to identify gaps and improve future responses.	4	4	-	-
NOS Total	50	50	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	SSD/VSQ/N0333
NOS Name	Planning and Organizing Lifting and Rigging Emergency Protocols
Sector	Cross Sectoral
Sub-Sector	
Occupation	Lifting & Rigging Engineering & Management
NSQF Level	5.5
Credits	2
Version	1.0
Last Reviewed Date	22/10/2024
Next Review Date	22/10/2027
NSQC Clearance Date	22/10/2024



Qualification Pack

SSD/VSQ/N0334: Load Planning and Stability Control in Lifting Operation

Description

This NOS provides essential knowledge and skills required for accurate load planning, weight calculations, and stability control during lifting and rigging operations. The focus is on ensuring that loads are properly balanced and within equipment limits, preventing accidents such as equipment tipping or load slippage. It equips individuals with the ability to assess loads, calculate weight distribution, and apply stability control measures to ensure safe and efficient lifting operations.

Scope

The scope covers the following :

- Plan and prepare for load-lifting operations.
- Conduct accurate weight and load distribution calculations.
- Implement stability control measures to prevent equipment tipping.
- Verify that equipment capacity and load limits are not exceeded.
- Collaborate with crane operators, rigging supervisors, and safety personnel to ensure safe operations.

Elements and Performance Criteria

Plan and Prepare for Load Lifting Operations

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

- PC1.** Assess the site conditions and determine the feasibility of lifting operations.
- PC2.** Identify the type and weight of loads to be lifted.
- PC3.** Verify that the lifting equipment and accessories are suitable for the operation.

Calculate Weight, Load Distribution, and Sling Angles

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

- PC4.** Calculate the total weight of loads, including attachments and accessories.
- PC5.** Determine center of gravity and load distribution for safe lifting.
- PC6.** Calculate sling angles and pressure points to ensure load stability.

Implement Stability Control Measures

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

- PC7.** Ensure that counterweights are correctly placed for balance.
- PC8.** Monitor crane stability indicators and load charts during lifting operations.
- PC9.** Adjust the boom angle, sling length, and load position as necessary to maintain stability.

Verify Equipment Capacity and Load Limits

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

- PC10.** Confirm that the load weight does not exceed the equipment's capacity.
- PC11.** Ensure that load charts and equipment manuals are accessible and followed.
- PC12.** Verify compliance with regulatory standards and safety protocols.



Qualification Pack

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Procedures for assessing site conditions and planning lifting operations.
- KU2.** Different types of loads and their characteristics.
- KU3.** Techniques for calculating total load weight, including accessories.
- KU4.** Methods for identifying the center of gravity and load distribution.
- KU5.** Calculation of sling angles and pressure points to maintain load stability.
- KU6.** Use of counterweights to balance the crane and prevent tipping.
- KU7.** Monitoring load indicators and charts for maintaining crane stability.
- KU8.** Importance of operating within equipment load limits and capacities.
- KU9.** Compliance with safety protocols, load charts, and regulatory standards (e.g., OSHA, LOLER).
- KU10.** Collaborating with crane operators, rigging supervisors, and safety teams.
- KU11.** Communicating adjustments during operations to maintain stability.

Generic Skills (GS)

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

- GS1.** Reading & writing in the language of communication.
- GS2.** Effective verbal communication in local language.
- GS3.** Basic mathematics and calculations.
- GS4.** Understanding of safety and adherence to safety related protocols.
- GS5.** Conduct of Professional behavior with co-workers and employees.
- GS6.** Use of personal protective equipment.
- GS7.** Work site rules & security, fire safety protocols, first aid & procedure under emergency conditions.
- GS8.** Housekeeping and disposal of waste materials.
- GS9.** Strong focus on safety standards, ensuring a safe working environment, and implementing preventative measures.
- GS10.** Attentive, providing feedback & proposing solutions to operational challenges.



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Plan and Prepare for Load Lifting Operations</i>	14	14	-	-
PC1. Assess the site conditions and determine the feasibility of lifting operations.	5	5	-	-
PC2. Identify the type and weight of loads to be lifted.	5	5	-	-
PC3. Verify that the lifting equipment and accessories are suitable for the operation.	4	4	-	-
<i>Calculate Weight, Load Distribution, and Sling Angles</i>	12	12	-	-
PC4. Calculate the total weight of loads, including attachments and accessories.	4	4	-	-
PC5. Determine center of gravity and load distribution for safe lifting.	4	4	-	-
PC6. Calculate sling angles and pressure points to ensure load stability.	4	4	-	-
<i>Implement Stability Control Measures</i>	12	12	-	-
PC7. Ensure that counterweights are correctly placed for balance.	4	4	-	-
PC8. Monitor crane stability indicators and load charts during lifting operations.	4	4	-	-
PC9. Adjust the boom angle, sling length, and load position as necessary to maintain stability.	4	4	-	-
<i>Verify Equipment Capacity and Load Limits</i>	12	12	-	-
PC10. Confirm that the load weight does not exceed the equipment's capacity.	4	4	-	-
PC11. Ensure that load charts and equipment manuals are accessible and followed.	4	4	-	-
PC12. Verify compliance with regulatory standards and safety protocols.	4	4	-	-
NOS Total	50	50	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	SSD/VSQ/N0334
NOS Name	Load Planning and Stability Control in Lifting Operation
Sector	Cross Sectoral
Sub-Sector	
Occupation	Lifting & Rigging Engineering & Management
NSQF Level	5.5
Credits	2
Version	1.0
Last Reviewed Date	22/10/2024
Next Review Date	22/10/2027
NSQC Clearance Date	22/10/2024



Qualification Pack

SSD/VSQ/N0335: Communication and Team Coordination in Lifting Operations

Description

This NOS focuses on the essential skills required for effective communication and seamless team coordination during lifting and rigging operations. It equips individuals with the ability to communicate clearly using verbal and non-verbal methods, ensure teamwork, and foster coordination between operators, riggers, and supervisors to prevent accidents, delays, or misunderstandings. The goal is to ensure that all team members are aligned during lifting operations, enhancing safety and operational efficiency.

Scope

The scope covers the following :

- Communicate clearly using hand signals, radios, and verbal instructions.
- Ensure smooth coordination among crane operators, riggers, and supervisors.
- Manage conflicts and maintain effective teamwork.
- Conduct pre- and post-operation briefings to align team members.
- Promote a culture of open communication and safety compliance.

Elements and Performance Criteria

Use Effective Communication Tools and Techniques

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

- PC1.** Use appropriate hand signals, radios, or verbal instructions during operations.
- PC2.** Ensure that all instructions are understood and acknowledged by the team.
- PC3.** Communicate any changes or risks immediately to relevant personnel.

Coordinate Team Actions to Ensure Smooth Operations

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

- PC4.** Ensure clear coordination between crane operators, riggers, and supervisors.
- PC5.** Monitor team actions to ensure they align with the lifting plan.
- PC6.** Adjust team coordination based on environmental conditions or operational challenges.

Manage Team Conflicts and Promote Collaboration

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

- PC7.** Identify potential conflicts within the team and resolve them proactively.
- PC8.** Encourage collaboration and open communication to enhance teamwork.
- PC9.** Provide constructive feedback to improve team coordination.

Conduct Pre- and Post-Operation Briefings

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

- PC10.** Lead pre-operation briefings to align team members with the lifting plan.
- PC11.** Conduct post-operation debriefs to review performance and identify areas for improvement.
- PC12.** Prepare documents and communicate lessons learned from operations to the team.



Qualification Pack

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Use of hand signals, radios, and verbal instructions for safe operations.
- KU2.** Importance of clarity and consistency in communication.
- KU3.** Best practices for coordinating team actions during lifting operations.
- KU4.** Methods to align actions with the lifting plan and operational goals.
- KU5.** Techniques for identifying and resolving conflicts within the team.
- KU6.** Importance of open communication and collaboration in lifting operations.
- KU7.** Procedures for conducting pre- and post-operation briefings.
- KU8.** Importance of reviewing performance and sharing lessons learned.
- KU9.** Communicating safety protocols and compliance requirements to the team.
- KU10.** Role of communication in maintaining safety and preventing incidents.

Generic Skills (GS)

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

- GS1.** Reading & writing in the language of communication.
- GS2.** Effective verbal communication in local language.
- GS3.** Basic mathematics and calculations.
- GS4.** Understanding of safety and adherence to safety related protocols.
- GS5.** Conduct of Professional behavior with co-workers and employees.
- GS6.** Use of personal protective equipment.
- GS7.** Work site rules & security, fire safety protocols, first aid & procedure under emergency conditions.
- GS8.** Housekeeping and disposal of waste materials.
- GS9.** Strong focus on safety standards, ensuring a safe working environment, and implementing preventative measures.
- GS10.** Attentive, providing feedback & proposing solutions to operational challenges.



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Use Effective Communication Tools and Techniques</i>	14	14	-	-
PC1. Use appropriate hand signals, radios, or verbal instructions during operations.	5	5	-	-
PC2. Ensure that all instructions are understood and acknowledged by the team.	5	5	-	-
PC3. Communicate any changes or risks immediately to relevant personnel.	4	4	-	-
<i>Coordinate Team Actions to Ensure Smooth Operations</i>	12	12	-	-
PC4. Ensure clear coordination between crane operators, riggers, and supervisors.	4	4	-	-
PC5. Monitor team actions to ensure they align with the lifting plan.	4	4	-	-
PC6. Adjust team coordination based on environmental conditions or operational challenges.	4	4	-	-
<i>Manage Team Conflicts and Promote Collaboration</i>	12	12	-	-
PC7. Identify potential conflicts within the team and resolve them proactively.	4	4	-	-
PC8. Encourage collaboration and open communication to enhance teamwork.	4	4	-	-
PC9. Provide constructive feedback to improve team coordination.	4	4	-	-
<i>Conduct Pre- and Post-Operation Briefings</i>	12	12	-	-
PC10. Lead pre-operation briefings to align team members with the lifting plan.	4	4	-	-
PC11. Conduct post-operation debriefs to review performance and identify areas for improvement.	4	4	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Prepare documents and communicate lessons learned from operations to the team.	4	4	-	-
NOS Total	50	50	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	SSD/VSQ/N0335
NOS Name	Communication and Team Coordination in Lifting Operations
Sector	Cross Sectoral
Sub-Sector	
Occupation	Lifting & Rigging Engineering & Management
NSQF Level	5.5
Credits	1
Version	1.0
Last Reviewed Date	22/10/2024
Next Review Date	22/10/2027
NSQC Clearance Date	22/10/2024



Qualification Pack

SSD/VSQ/N0336: Health, Hygiene and Environment Protocols for Lifting & Rigging Operations

Description

This NOS emphasizes the importance of health, hygiene, environmental safety, and psychological well-being in lifting and rigging operations. It equips individuals with knowledge of personal and environmental health protocols, promoting a safe and healthy work environment. The NOS also addresses the need for mental well-being to ensure personnel maintain focus, productivity, and safety during physically and mentally demanding operations.

Scope

The scope covers the following :

- Promote personal hygiene, health practices, and PPE usage.
- Ensure compliance with environmental health protocols to reduce hazards.
- Manage psychological health through stress management and work-life balance.
- Identify and mitigate environmental risks (e.g., weather conditions, noise, and pollution).
- Conduct health assessments and safety briefings to maintain readiness.

Elements and Performance Criteria

Promote Personal Health, Hygiene, and PPE Usage

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

- PC1.** Ensure workers follow personal hygiene protocols at the worksite.
- PC2.** Monitor compliance with PPE requirements for lifting and rigging operations.
- PC3.** Conduct regular health assessments to ensure fitness for duty.

Manage Environmental Health and Safety Protocols

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

- PC4.** Identify environmental hazards such as heat, noise, and air pollution.
- PC5.** Implement controls to mitigate environmental risks during operations.
- PC6.** Monitor compliance with waste management and pollution control procedures.

Ensure Psychological Health and Stress Management

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

- PC7.** Identify early signs of stress, fatigue, and burnout in workers.
- PC8.** Provide access to mental health support and counseling services.
- PC9.** Promote a work-life balance to maintain mental well-being.

Conduct Health and Safety Briefings

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

- PC10.** Organize regular health and safety briefings to raise awareness.
- PC11.** Provide training on handling emergencies related to health and environmental risks.
- PC12.** Prepare documents and review health-related incidents to improve future protocols.



Qualification Pack

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Best practices for personal hygiene and health management at the worksite.
- KU2.** Importance of PPE usage to prevent injuries and illnesses.
- KU3.** Techniques for identifying and mitigating environmental hazards (e.g., noise, pollution).
- KU4.** Compliance with waste management and environmental protection regulations.
- KU5.** Strategies for managing stress and fatigue during high-pressure operations.
- KU6.** Importance of mental health support and promoting work-life balance.
- KU7.** Methods for conducting health briefings and safety training.
- KU8.** Procedures for reporting and reviewing health-related incidents.
- KU9.** Techniques for handling health emergencies and environmental risks at the site.
- KU10.** Coordination with medical personnel and safety officers during health-related incidents.

Generic Skills (GS)

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

- GS1.** Reading & writing in the language of communication.
- GS2.** Effective verbal communication in local language.
- GS3.** Basic mathematics and calculations.
- GS4.** Understanding of safety and adherence to safety related protocols.
- GS5.** Conduct of Professional behavior with co-workers and employees.
- GS6.** Use of personal protective equipment.
- GS7.** Work site rules & security, fire safety protocols, first aid & procedure under emergency conditions.
- GS8.** Housekeeping and disposal of waste materials.
- GS9.** Strong focus on safety standards, ensuring a safe working environment, and implementing preventative measures.
- GS10.** Attentive, providing feedback & proposing solutions to operational challenges.



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Promote Personal Health, Hygiene, and PPE Usage</i>	14	14	-	-
PC1. Ensure workers follow personal hygiene protocols at the worksite.	5	5	-	-
PC2. Monitor compliance with PPE requirements for lifting and rigging operations.	5	5	-	-
PC3. Conduct regular health assessments to ensure fitness for duty.	4	4	-	-
<i>Manage Environmental Health and Safety Protocols</i>	12	12	-	-
PC4. Identify environmental hazards such as heat, noise, and air pollution.	4	4	-	-
PC5. Implement controls to mitigate environmental risks during operations.	4	4	-	-
PC6. Monitor compliance with waste management and pollution control procedures.	4	4	-	-
<i>Ensure Psychological Health and Stress Management</i>	12	12	-	-
PC7. Identify early signs of stress, fatigue, and burnout in workers.	4	4	-	-
PC8. Provide access to mental health support and counseling services.	4	4	-	-
PC9. Promote a work-life balance to maintain mental well-being.	4	4	-	-
<i>Conduct Health and Safety Briefings</i>	12	12	-	-
PC10. Organize regular health and safety briefings to raise awareness.	4	4	-	-
PC11. Provide training on handling emergencies related to health and environmental risks.	4	4	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Prepare documents and review health-related incidents to improve future protocols.	4	4	-	-
NOS Total	50	50	-	-



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National Occupational Standards (NOS) Parameters

NOS Code	SSD/VSQ/N0336
NOS Name	Health, Hygiene and Environment Protocols for Lifting & Rigging Operations
Sector	Cross Sectoral
Sub-Sector	
Occupation	Lifting & Rigging Engineering & Management
NSQF Level	5.5
Credits	1
Version	1.0
Last Reviewed Date	22/10/2024
Next Review Date	22/10/2027
NSQC Clearance Date	22/10/2024



Qualification Pack

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:



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- 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.



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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



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- 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



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Employability Skills</i>	1	1	-	-
PC1. identify employability skills required for jobs in various industries	-	-	-	-
PC2. identify and explore learning and employability portals	-	-	-	-
<i>Constitutional values – Citizenship</i>	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	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	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	-	-	-	-
<i>Basic English Skills</i>	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	-	-	-	-
<i>Career Development & Goal Setting</i>	1	2	-	-



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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	-	-	-	-
<i>Communication Skills</i>	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	-	-	-	-
<i>Diversity & Inclusion</i>	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	-	-	-	-
<i>Financial and Legal Literacy</i>	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	-	-	-	-
<i>Essential Digital Skills</i>	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	-	-	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Entrepreneurship</i>	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	-	-	-	-
<i>Customer Service</i>	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	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	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	-	-



Qualification Pack

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	29/09/2022
Next Review Date	29/09/2027
NSQF Clearance Date	29/09/2022

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

1. The assessment criteria given in the Qualification Pack Crane Inspector (Safety) by the SSDF.
2. Assessments can be carried out with pen-paper as well as online.
3. Assessment will be carried by certified assessor and affiliated Assessment Agency only.
4. Each NOS for its Performance Criteria (PC) has been assigned marks proportional to its importance. Proportion of marks for Theory and Practical has been marked NOS wise.
5. Questions on practical & theory will be formed in such a way as to provide outcome on maximum Performance Criteria and in proportional way within the NOS.
6. The assessment for the theory part will be based on written questions (short question, multiple choice & viva, or a combination of them) created/approved by the SSDF.
7. The assessment for the practical part will be based on practical conducted for trainees. In case of remote/on-line assessments, the practical's can be carried through proctors or practical questions formulated based on pictorially represented logical questions (based on pictures of practical & logical steps) created/approved by the SSDF.



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8. The passing and grading criteria of each NOS & cumulative for QP will be as follows:-

a. 70% or more than 70% - Grade A

b. 60% or more than 60% but less than 70% - Grade B

c. 50% or more than 50% but less than 60% - Grade C

d. Less than 50% - Grade Fail

e. If an individual gets less than 50% and 35% or more in one NOS and; overall, 50% or more; individual will be considered pass with grade "C" irrespective of overall marks.

f. Individuals getting less than 50% in more than one NOS and getting overall marks 50% or more in QP will be put in grade Fail.

9. Assessment will be for complete QP and the trainees can be given additional chance to appear in re-assessment for improvements, based on decision by SSDF.

10. In case a trainee fails in one or two NOSs, re-assessments in the failing NOSs can be allowed in the next 3 months from the date of publication of results. Otherwise, the failed candidate will have to re-appear in all NOSs.

11. Minimum overall duration of assessment will be six hours.

Minimum Aggregate Passing % at QP Level : 50

(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: 50

(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

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
SSD/VSQ/N0327.Introduction to Lifting and Rigging Operations	50	50	0	0	100	10



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National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
SSD/VSQ/N0328.Crane Operational Mechanisms and Systems	50	50	0	0	100	10
SSD/VSQ/N0329.Inspection, Maintenance, and Certification of Lifting Equipment	50	50	0	0	100	10
SSD/VSQ/N0330.Legal and Regulatory Compliance for Lifting Operations	50	50	0	0	100	10
SSD/VSQ/N0331.Hazard Identification, Risk Assessment, and Incident Reporting in Lifting Operation	50	50	0	0	100	10
SSD/VSQ/N0332.Safety of Plant, Machinery, and Vehicle in Lifting Operation	50	50	0	0	100	10
SSD/VSQ/N0333.Planning and Organizing Lifting and Rigging Emergency Protocols	50	50	0	0	100	10
SSD/VSQ/N0334.Load Planning and Stability Control in Lifting Operation	50	50	0	0	100	10
SSD/VSQ/N0335.Communication and Team Coordination in Lifting Operations	50	50	0	0	100	5
SSD/VSQ/N0336.Health, Hygiene and Environment Protocols for Lifting & Rigging Operations	50	50	0	0	100	5
DGT/VSQ/N0102.Employability Skills (60 Hours)	20	30	-	-	50	10
Total	520	530	-	-	1050	100



Qualification Pack

Acronyms

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



Qualification Pack

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.



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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.