

## Qualification Pack



# Supervisor (Plant & Machinery)

QP Code: IES/Q0201

Version: 2.0

NSQF Level: 5

Infrastructure Equipment Skill Council || Avik Royale - First Floor (Next of Vijaya Bank), No.6, 50 feet  
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## Qualification Pack

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## Qualification Pack

### IES/Q0201: Supervisor (Plant & Machinery)

#### Brief Job Description

The Supervisor (Plant & Machinery) plans and schedules work related to equipment operations, allocates work to team members and guides till completion in line with safety, productivity and quality norms at the worksite. The Supervisor also maintains equipment operations related documentation, anchors interactions with stakeholders and assists the manager with P&M operations related matters to meet organizations objectives and customers requirements.

#### Personal Attributes

The Job requires the individual to have: attention to details, a sharp mind to spot and correct errors, the ability to work long hours, high level of concentration, analytical ability and team work. He should also be physically agile, strong, have good high sight and cognitive reasoning.

#### Applicable National Occupational Standards (NOS)

##### Compulsory NOS:

1. [IES/N0201: Plan and supervise equipment operations](#)
2. [IES/N0203: Comply with worksite safety and quality standards](#)
3. [IES/N0202: Manage equipment operations related stakeholders](#)
4. [IES/N7601: Comply with worksite health and safety guidelines](#)

#### Qualification Pack (QP) Parameters

<b>Sector</b>	Infrastructure Equipment
<b>Sub-Sector</b>	Equipment Operations
<b>Occupation</b>	Managerial & Supervisory - Equipment Operations
<b>Country</b>	India
<b>NSQF Level</b>	5
<b>Aligned to NCO/ISCO/ISIC Code</b>	NCO-3123.0100 Supervisor (Plant & Machinery)

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<b>Minimum Educational Qualification &amp; Experience</b>	Graduate with 1 Year of experience OR Diploma (3-year Diploma (after 12th Class) with 2 years experience in the relevant Field OR 12th Class + 4 years of relevant experience OR NSQF Level 4 with 2 years of relevant experience) with 2 Years of experience
<b>Minimum Level of Education for Training in School</b>	
<b>Pre-Requisite License or Training</b>	NA
<b>Minimum Job Entry Age</b>	20 Years
<b>Last Reviewed On</b>	26/05/2022
<b>Next Review Date</b>	26/05/2025
<b>NSQC Approval Date</b>	26/05/2022
<b>Version</b>	2.0
<b>Reference code on NQR</b>	2022/IS/IESC/05901
<b>NQR Version</b>	1.0

## Qualification Pack

### IES/N0201: Plan and supervise equipment operations

#### Description

This unit provides Performance Criteria, Knowledge & Understanding and Skills & Abilities for carrying out planning and supervising equipment operations at the worksite

#### Scope

The scope covers the following :

- Planning and supervision of equipment operations

#### Elements and Performance Criteria

##### *Planning and supervision of equipment operations*

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

- PC1.** plan and schedule equipment operations in accordance with organization, Safety Health Environment, worksite guidelines and procedures
- PC2.** plan and match equipment and resources required as per the task
- PC3.** select the equipment according to the requirement of the project
- PC4.** allocate the schedule of operators and other P&M support personnel as per the project requirements
- PC5.** appropriately allocate work to subordinate team-mates as per their experience/ skill levels
- PC6.** train and elaborate them on the assigned jobs
- PC7.** communicate job expectations, based on task and site conditions, clearly to the team-mates
- PC8.** monitor and supervise operations on an ongoing basis to meet project requirements
- PC9.** carry out appraisals and training of the team-mates at regular intervals
- PC10.** adhere to organization and worksite level policies / procedures
- PC11.** adhere to relevant quality processes / standards during operations
- PC12.** complete role related documentation and reporting
- PC13.** resolve process level issues or queries based on interactions with other stakeholders and managers

#### Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** organization and worksite related guidelines/ procedures related to equipment operations
- KU2.** expectations and responsibilities of the job role
- KU3.** details of the various job roles and responsibilities
- KU4.** responsibilities and line of reporting within the work area
- KU5.** method of obtaining / giving feedback related to performance
- KU6.** Safety Health Environment policy of the company

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- KU7.** quality standards like ISO applicable to equipment operations
- KU8.** risk and impact of not following defined procedures/ work instructions
- KU9.** implications of delays in process to the company
- KU10.** communication network / channels followed by the organization
- KU11.** documentation and reporting protocol and formats
- KU12.** the various kinds of infrastructure equipment and their uses
- KU13.** methods of estimation of manpower requirement
- KU14.** the method to select the appropriate personnel for different types of projects
- KU15.** skill matrix/ other guidelines and method of classifying available personnel
- KU16.** the process of clear communication and job allocation
- KU17.** various training and up-skilling interventions
- KU18.** the procedure for monitoring employee performance
- KU19.** the process of appraisal and its importance
- KU20.** process of maintaining operations related documentation
- KU21.** different communication channels / network for issue/ query resolution
- KU22.** knowledge in choosing the right tools and lifting tackles

## Generic Skills (GS)

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

- GS1.** record any deviations/ incidents as per prescribed norms
- GS2.** read and comprehend basic english to read manuals of operations
- GS3.** read instructions, guidelines/procedures/rules related to the worksite and equipment operations
- GS4.** give clear instructions to co-workers, subordinates and other personnel
- GS5.** make appropriate decisions pertaining to the concerned area of work with respect to intended work objective, span of authority, responsibility, laid down procedure and guidelines
- GS6.** work with supervisors/ team mates to carry out work related tasks
- GS7.** plan work according to the required schedule and location
- GS8.** ensure all customer needs are assessed and every effort is made to provide satisfactory service
- GS9.** ensure all routine customer requests are effectively allocated
- GS10.** refer problems outside area of responsibility to appropriate person
- GS11.** assess the resource requirement to accomplish the task with in schedule
- GS12.** examine, evaluate and apply knowledge acquired from observation, experience, logic or communication in order to act efficiently

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### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Planning and supervision of equipment operations</i>	<b>10</b>	<b>35</b>	-	-
<b>PC1.</b> plan and schedule equipment operations in accordance with organization, Safety Health Environment, worksite guidelines and procedures	1	3	-	-
<b>PC2.</b> plan and match equipment and resources required as per the task	-	3	-	-
<b>PC3.</b> select the equipment according to the requirement of the project	-	3	-	-
<b>PC4.</b> allocate the schedule of operators and other P&M support personnel as per the project requirements	1	3	-	-
<b>PC5.</b> appropriately allocate work to subordinate team-mates as per their experience/ skill levels	1	3	-	-
<b>PC6.</b> train and elaborate them on the assigned jobs	1	3	-	-
<b>PC7.</b> communicate job expectations, based on task and site conditions, clearly to the team-mates	1	3	-	-
<b>PC8.</b> monitor and supervise operations on an ongoing basis to meet project requirements	-	3	-	-
<b>PC9.</b> carry out appraisals and training of the team-mates at regular intervals	1	3	-	-
<b>PC10.</b> adhere to organization and worksite level policies / procedures	1	2	-	-
<b>PC11.</b> adhere to relevant quality processes / standards during operations	1	2	-	-
<b>PC12.</b> complete role related documentation and reporting	1	2	-	-
<b>PC13.</b> resolve process level issues or queries based on interactions with other stakeholders and managers	1	2	-	-



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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
NOS Total	10	35	-	-



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### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	IES/N0201
<b>NOS Name</b>	Plan and supervise equipment operations
<b>Sector</b>	Infrastructure Equipment
<b>Sub-Sector</b>	Equipment Operations
<b>Occupation</b>	Managerial & Supervisory - Equipment Operations
<b>NSQF Level</b>	5
<b>Credits</b>	TBD
<b>Version</b>	2.0
<b>Last Reviewed Date</b>	26/05/2022
<b>Next Review Date</b>	26/05/2025
<b>NSQC Clearance Date</b>	26/05/2022

## Qualification Pack

### IES/N0203: Comply with worksite safety and quality standards

#### Description

This unit provides Performance Criteria, Knowledge & Understanding and Skills & Abilities for ensuring the performance of equipment operations as per quality and project management standards at the worksite.

#### Scope

The scope covers the following :

- Worksite SHE and quality standards

#### Elements and Performance Criteria

##### *Worksite SHE and quality standards*

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

- PC1.** comply with all organizational guidelines, SHE policy and quality standards during equipment operations
- PC2.** supervise the enforcement of all HSE related guidelines in equipment operations
- PC3.** plan procurement and provide safety gear and other equipment required to personnel for safe and productive operations
- PC4.** carry out fire/ other disaster recovery drills on work site along with the HSE team
- PC5.** inspect fire extinguishers and other machine equipment for validity and plan procurement/ renewal for necessary equipment
- PC6.** carry out periodic walk-throughs to ensure that the worksite and workshop areas are clean and free from hazards as per the safety, health and environmental policy/ guidelines
- PC7.** supervise the handling and disposal of waste based on environmental guidelines at the work place
- PC8.** participate, as required, in the investigation of near misses, accidents and incidents at the work site with the she and project management teams
- PC9.** assist in gathering data and complete documentation related to accidents/ incidents and share with concerned personnel
- PC10.** assist with checking the project management plan to ensure operations are as per the quality and productivity specifications outlined
- PC11.** carry out routine random checks and inspections to keep a check on the quality of work carried out
- PC12.** inspect damage to equipment and suggest rectification as per the work protocol and quality standards
- PC13.** give feedback to team and stakeholders on the quality and productivity at the worksite on the continuous basis
- PC14.** carry out role related documentation and reporting

#### Knowledge and Understanding (KU)

## Qualification Pack

The individual on the job needs to know and understand:

- KU1.** organizational policies and procedures, safety policy and quality standards documents
- KU2.** details of the various job roles and responsibilities within the worksite
- KU3.** responsibilities and line of reporting within the work area
- KU4.** escalation matrix for reporting identified problems
- KU5.** contact details of the procurement team and process for procurement of equipment, spares and consumables
- KU6.** schedule and process for fire/ other disaster recovery drills
- KU7.** inspection and certification plan for equipment
- KU8.** rectification process and approval for damaged equipment
- KU9.** implications of delays in procurement process to the company
- KU10.** risk and impact of not following defined procedures/ work instructions
- KU11.** accident investigative procedure and documentation
- KU12.** production plan for the worksite and site productivity levels
- KU13.** documentation formats and process for SHE and quality
- KU14.** different SHE related processes to be carried out during operations
- KU15.** methods to enforce SHE policy guidelines in operations
- KU16.** safety risks and hazards at worksite and means to mitigate these
- KU17.** types and methods of disaster recovery drills
- KU18.** various techniques to carry out quality checks on operations
- KU19.** methods of disposal of hazardous waste, as per SHE policy
- KU20.** types of equipment damage and the effects on quality

## Generic Skills (GS)

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

- GS1.** record any deviations/ incidents as per prescribed norms
- GS2.** read and comprehend basic english to read manuals of operations
- GS3.** read instructions, guidelines/ procedures/ rules related to the worksite and equipment operations
- GS4.** give clear instructions to co-workers, subordinates and other personnel
- GS5.** make appropriate decisions pertaining to the concerned area of work with respect to intended work objective, span of authority, responsibility, laid down procedure and guidelines
- GS6.** work with supervisors/ team mates to carry out work related tasks
- GS7.** plan work according to the required schedule and location
- GS8.** plan for regular maintenance on a daily basis before machine operations
- GS9.** ensure all customer needs are assessed and every effort is made to provide satisfactory service
- GS10.** ensure all customer requests are effectively allocated

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- GS11.** identify immediate or temporary solutions to resolve issues
- GS12.** evaluate the criticality of any damage to the plant and machinery and take appropriate action
- GS13.** examine, evaluate and apply knowledge acquired from observation, experience, logic or communication in order to act efficiently

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Worksite SHE and quality standards</i>	<b>10</b>	<b>30</b>	-	-
<b>PC1.</b> comply with all organizational guidelines, SHE policy and quality standards during equipment operations	-	3	-	-
<b>PC2.</b> supervise the enforcement of all HSE related guidelines in equipment operations	-	2	-	-
<b>PC3.</b> plan procurement and provide safety gear and other equipment required to personnel for safe and productive operations	1	2	-	-
<b>PC4.</b> carry out fire/ other disaster recovery drills on work site along with the HSE team	-	3	-	-
<b>PC5.</b> inspect fire extinguishers and other machine equipment for validity and plan procurement/ renewal for necessary equipment	-	3	-	-
<b>PC6.</b> carry out periodic walk-throughs to ensure that the worksite and workshop areas are clean and free from hazards as per the safety, health and environmental policy/ guidelines	1	2	-	-
<b>PC7.</b> supervise the handling and disposal of waste based on environmental guidelines at the work place	-	3	-	-
<b>PC8.</b> participate, as required, in the investigation of near misses, accidents and incidents at the work site with the she and project management teams	1	2	-	-
<b>PC9.</b> assist in gathering data and complete documentation related to accidents/ incidents and share with concerned personnel	1	2	-	-
<b>PC10.</b> assist with checking the project management plan to ensure operations are as per the quality and productivity specifications outlined	-	2	-	-
<b>PC11.</b> carry out routine random checks and inspections to keep a check on the quality of work carried out	1	2	-	-

### Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC12.</b> inspect damage to equipment and suggest rectification as per the work protocol and quality standards	1	2	-	-
<b>PC13.</b> give feedback to team and stakeholders on the quality and productivity at the worksite on the continuous basis	2	1	-	-
<b>PC14.</b> carry out role related documentation and reporting	2	1	-	-
<b>NOS Total</b>	<b>10</b>	<b>30</b>	-	-

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### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	IES/N0203
<b>NOS Name</b>	Comply with worksite safety and quality standards
<b>Sector</b>	Infrastructure Equipment
<b>Sub-Sector</b>	Equipment Operations
<b>Occupation</b>	Managerial & Supervisory - Equipment Operations
<b>NSQF Level</b>	5
<b>Credits</b>	TBD
<b>Version</b>	2.0
<b>Last Reviewed Date</b>	26/05/2022
<b>Next Review Date</b>	26/05/2025
<b>NSQC Clearance Date</b>	26/05/2022

## Qualification Pack

### IES/N0202: Manage equipment operations related stakeholders

#### Description

This unit provides Performance Criteria, Knowledge & Understanding and Skills & Abilities for interacting and coordinating with various stakeholders during equipment operations.

#### Scope

The scope covers the following :

- Interaction with stakeholders
- Assistance in sub-contractor management

#### Elements and Performance Criteria

##### *Interaction with stakeholders*

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

- PC1.** receive work instructions and feedback from reporting manager or other senior construction team personnel at the work site
- PC2.** carry out work related activities in compliance with instructions and worksite requirements
- PC3.** analyze and present operations data like MTBF, MTTR, productivity analysis, cost to company etc on a periodic basis
- PC4.** generate system based requests for spares and consumables
- PC5.** report to manager and other stakeholders periodically on equipment operations
- PC6.** appraise the details of the hired equipment and actual worked hours of the equipment
- PC7.** keep stakeholders informed about repairs and maintenance of tools and machinery as required
- PC8.** assist the P&M manager in finalizing process-flow and resource level improvements
- PC9.** assist the P&M manager in providing alternative economical but productive and safe alternatives from an operations perspective
- PC10.** communicate to manager about employee management, i.e., shortages or performance related
- PC11.** communicate any potential hazards or expected process disruptions
- PC12.** plan for re-work based on feedback provided by manager/ other stakeholders

##### *Assistance in sub-contractor management*

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

- PC13.** provide correct and reliable feedback on equipment and personnel to the P&M manager
- PC14.** assist the P&M Manager to estimate the potential equipment/ manpower requirements from sub-contractors
- PC15.** assist in the evaluation of sub-contractors as per the equipment required
- PC16.** validate the submission of sub-contractor related documentation and work sheets as per company policy
- PC17.** supervise sub-contractor personnel in order to get optimum work performance



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- PC18.** support/inform vendor/contractor to get work permit to work inside plant/factory and update about the statutory requirements

### Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** expectations and responsibilities of the job roles (self and team)
- KU2.** details of the various job roles and responsibilities in various teams at the worksite
- KU3.** responsibilities and line of reporting within the work area
- KU4.** escalation matrix for reporting identified problems
- KU5.** the organizations rules, guidelines and standards
- KU6.** method of obtaining/ giving feedback related to performance
- KU7.** organizational policies and procedures
- KU8.** safety health environment policy, quality policy, house keeping and other worksite requirements
- KU9.** documentation and reporting requirements at the organization and worksite related to equipment operations
- KU10.** the various infrastructure equipment and their uses
- KU11.** equipment history sheet / professional engineering checklist
- KU12.** usage, capacity and functionality of various equipment
- KU13.** types and methods of computing operations data (mtbf, mttr, productivity analysis, cost to company)
- KU14.** different spares and consumables required for operations
- KU15.** inventory levels and reordering patterns for common spares and consumables
- KU16.** repair and maintenance schedule for tools and equipment
- KU17.** the method to evaluate and select sub-contractors
- KU18.** documentation and reporting formats/ protocols for sub-contractors
- KU19.** process and documentation related to evaluation of the performance of the subcontractor personnel

### Generic Skills (GS)

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

- GS1.** record any deviations/ incidents as per prescribed norms
- GS2.** read and comprehend basic english to read manuals of operations
- GS3.** read instructions, guidelines/procedures/rules related to the worksite and equipment operations
- GS4.** give clear instructions to co-workers, subordinates and other personnel
- GS5.** think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s)
- GS6.** work with supervisors/ team mates to carry out work related tasks

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- GS7.** plan work according to the required schedule and location
- GS8.** ensure all customer needs are assessed and every effort is made to provide satisfactory service
- GS9.** ensure all customer requests are effectively allocated
- GS10.** develop, implement and evaluate solutions to problems
- GS11.** assess any expected process disruptions
- GS12.** examine, evaluate and apply knowledge acquired from observation, experience, logic or communication in order to act efficiently

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### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Interaction with stakeholders</i>	<b>7</b>	<b>28</b>	-	-
<b>PC1.</b> receive work instructions and feedback from reporting manager or other senior construction team personnel at the work site	1	2	-	-
<b>PC2.</b> carry out work related activities in compliance with instructions and worksite requirements	1	2	-	-
<b>PC3.</b> analyze and present operations data like MTBF, MTTR, productivity analysis, cost to company etc on a periodic basis	-	5	-	-
<b>PC4.</b> generate system based requests for spares and consumables	1	2	-	-
<b>PC5.</b> report to manager and other stakeholders periodically on equipment operations	-	2	-	-
<b>PC6.</b> appraise the details of the hired equipment and actual worked hours of the equipment	-	-	-	-
<b>PC7.</b> keep stakeholders informed about repairs and maintenance of tools and machinery as required	1	2	-	-
<b>PC8.</b> assist the P&M manager in finalizing process-flow and resource level improvements	1	2	-	-
<b>PC9.</b> assist the P&M manager in providing alternative economical but productive and safe alternatives from an operations perspective	1	2	-	-
<b>PC10.</b> communicate to manager about employee management, i.e., shortages or performance related	1	3	-	-
<b>PC11.</b> communicate any potential hazards or expected process disruptions	-	3	-	-
<b>PC12.</b> plan for re-work based on feedback provided by manager/ other stakeholders	-	3	-	-
<i>Assistance in sub-contractor management</i>	<b>3</b>	<b>12</b>	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC13.</b> provide correct and reliable feedback on equipment and personnel to the P&M manager	1	2	-	-
<b>PC14.</b> assist the P&M Manager to estimate the potential equipment/ manpower requirements from sub-contractors	-	2	-	-
<b>PC15.</b> assist in the evaluation of sub-contractors as per the equipment required	-	2	-	-
<b>PC16.</b> validate the submission of sub-contractor related documentation and work sheets as per company policy	1	2	-	-
<b>PC17.</b> supervise sub-contractor personnel in order to get optimum work performance	-	2	-	-
<b>PC18.</b> support/inform vendor/contractor to get work permit to work inside plant/factory and update about the statutory requirements	1	2	-	-
<b>NOS Total</b>	<b>10</b>	<b>40</b>	-	-

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### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	IES/N0202
<b>NOS Name</b>	Manage equipment operations related stakeholders
<b>Sector</b>	Infrastructure Equipment
<b>Sub-Sector</b>	Equipment Operations
<b>Occupation</b>	Managerial & Supervisory - Equipment Operations
<b>NSQF Level</b>	5
<b>Credits</b>	TBD
<b>Version</b>	2.0
<b>Last Reviewed Date</b>	26/05/2022
<b>Next Review Date</b>	26/05/2025
<b>NSQF Clearance Date</b>	26/05/2022

## Qualification Pack

### IES/N7601: Comply with worksite health and safety guidelines

#### Description

This unit is about adhering to health and safety requirements at the worksite during equipment operations.

#### Scope

The scope covers the following :

- Worksite health and safety

#### Elements and Performance Criteria

##### *Worksite health and safety*

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

- PC1.** Comply with safety, health, security and environment related regulations/guidelines at the work site
- PC2.** use personal protective equipment (ppe) and other safety gear as applicable to the equipment and the worksite
- PC3.** Follow safety measures during operations to ensure that the health and safety of self or others (including members of the public) is not at risk
- PC4.** Carry out operations as per the manufacturer's and worksite related health and safety guidelines
- PC5.** Handle the transport, storage and disposal of hazardous materials and waste in compliance with worksite health, safety and environmental guidelines
- PC6.** operate various grades of fire extinguishers, as applicable
- PC7.** support in administering basic first aid and report to concerned team members, as required, in case of an accident
- PC8.** respond promptly and appropriately to an accident/ incident or emergency, within limits of your role and responsibility
- PC9.** record and report details related to operations, incidents or accidents, as applicable

#### Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** health, safety, environmental (HSE) and security related policies/guidelines of the organization and the worksite and its importance
- KU2.** personnel responsible for health, safety and environment (HSE) related matters and their contact details
- KU3.** location of worksite storage, she team and safe assembly points
- KU4.** reporting and documentation procedures for HSE and security matters
- KU5.** manufacturers guidelines related to health and safety requirements

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- KU6.** common types of health, safety, environment and security risks related to the worksite and operations
- KU7.** types, use and importance of personal protective equipment (PPE) and other safety gear
- KU8.** safe working practices to avoid common hazards and risks
- KU9.** guidelines for transport, storage and disposal of hazardous materials and waste
- KU10.** types of common hazards and risks at the worksite including fire, electrical, gas emergencies, accidents, incidents, structure collapse, machine breakdown
- KU11.** knowledge of safe lockdown/stop of machinery use in case of emergencies and incidents/accidents
- KU12.** types of fire extinguishers and their use
- KU13.** common injuries and appropriate basic first aid treatment e.g. electrical shock, bleeding, wounds, fractures, minor burns, eye injuries

## Generic Skills (GS)

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

- GS1.** document and report any health and safety related incidents/accidents
- GS2.** read and comprehend basic English to read manuals of operations
- GS3.** read all organizational and equipment related health and safety manuals and documents
- GS4.** read instructions, guidelines / procedures /rules related to the worksite and equipment operations
- GS5.** Give clear instructions to co-workers, subordinates and other personnel
- GS6.** Use correct technical terms while interacting with supervisor
- GS7.** Make an appropriate timely decision in responding to emergencies/accidents in line with organizational/worksite guidelines
- GS8.** Use correct PPE and other safety gear while at the worksite
- GS9.** Work with supervisors/ team mates to carry out work related tasks
- GS10.** Plan work according to the required schedule and location
- GS11.** Build and maintain positive and effective relationships with colleagues and customers
- GS12.** Seek appropriate assistance from other sources to resolve problems
- GS13.** Assess the intensity of the fire accident and operate fire extinguishers
- GS14.** Analyse, evaluate and apply the information gathered from observation, experience, reasoning, or communication to act efficiently

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### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Worksite health and safety</i>	<b>5</b>	<b>10</b>	-	-
<b>PC1.</b> Comply with safety, health, security and environment related regulations/guidelines at the work site	0.5	1	-	-
<b>PC2.</b> use personal protective equipment (ppe) and other safety gear as applicable to the equipment and the worksite	0.5	1	-	-
<b>PC3.</b> Follow safety measures during operations to ensure that the health and safety of self or others (including members of the public) is not at risk	0.5	1	-	-
<b>PC4.</b> Carry out operations as per the manufacturer's and worksite related health and safety guidelines	0.5	1	-	-
<b>PC5.</b> Handle the transport, storage and disposal of hazardous materials and waste in compliance with worksite health, safety and environmental guidelines	1	1	-	-
<b>PC6.</b> operate various grades of fire extinguishers, as applicable	0.5	2	-	-
<b>PC7.</b> support in administering basic first aid and report to concerned team members, as required, in case of an accident	0.5	1	-	-
<b>PC8.</b> respond promptly and appropriately to an accident/ incident or emergency, within limits of your role and responsibility	0.5	1	-	-
<b>PC9.</b> record and report details related to operations, incidents or accidents, as applicable	0.5	1	-	-
<b>NOS Total</b>	<b>5</b>	<b>10</b>	-	-



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### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	IES/N7601
<b>NOS Name</b>	Comply with worksite health and safety guidelines
<b>Sector</b>	Infrastructure Equipment
<b>Sub-Sector</b>	Equipment Operations
<b>Occupation</b>	Operator
<b>NSQF Level</b>	4
<b>Credits</b>	TBD
<b>Version</b>	2.0
<b>Last Reviewed Date</b>	26/05/2022
<b>Next Review Date</b>	31/05/2025
<b>NSQC Clearance Date</b>	26/05/2022

## Assessment Guidelines and Assessment Weightage

### Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Element/ Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each Element/ PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training center based on these criteria.
6. To pass the Qualification Pack assessment, every trainee should score the Recommended Pass % aggregate for the QP.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

## Qualification Pack

### Minimum Aggregate Passing % at QP Level : 70

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

### Assessment Weightage

Compulsory NOS

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
IES/N0201.Plan and supervise equipment operations	10	35	-	-	45	35
IES/N0203.Comply with worksite safety and quality standards	10	30	-	-	40	20
IES/N0202.Manage equipment operations related stakeholders	10	40	-	-	50	35
IES/N7601.Comply with worksite health and safety guidelines	5	10	0	0	15	10
<b>Total</b>	<b>35</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>100</b>

## Qualification Pack

### Acronyms

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

## Qualification Pack

### Glossary

<b>Sector</b>	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.
<b>Sub-sector</b>	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
<b>Occupation</b>	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
<b>Job role</b>	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
<b>Occupational Standards (OS)</b>	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.
<b>Performance Criteria (PC)</b>	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
<b>National Occupational Standards (NOS)</b>	NOS are occupational standards which apply uniquely in the Indian context.
<b>Qualifications Pack (QP)</b>	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.
<b>Unit Code</b>	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
<b>Unit Title</b>	Unit title gives a clear overall statement about what the incumbent should be able to do.
<b>Description</b>	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.
<b>Scope</b>	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.

## Qualification Pack

<b>Knowledge and Understanding (KU)</b>	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.
<b>Organisational Context</b>	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.
<b>Technical Knowledge</b>	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
<b>Core Skills/ Generic Skills (GS)</b>	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.
<b>Electives</b>	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.
<b>Options</b>	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.