QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR LOGISTICS SECTOR

What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Introduction

Qualifications Pack: Ship and Yard Planning Supervisor
(Electives – Dry Bulk Cargo/ Containerized Cargo)
(Options – Agency Operations/ Container Tracking and Vessel
Planning)

SECTOR: LOGISTICS

SUB-SECTOR: Ports Terminals, Container Freight Stations (CFS) and Inland

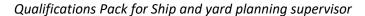
Container Depots (ICD)

OCCUPATION: Port operation and management

REFERENCE ID: LSC/Q3501

ALIGNED TO: NCO – 2015 – 1324.02 and ISCO – 08 – 1324

Brief Job Description: The individual allocates and supervises resources for storage and movement of cargo in port terminal yard, while ensuring compliance to statutory requirements/documentation to ensure smooth operations.







Electives

Elective 1: Dry Bulk Cargo

This unit is about supervision of cargo handling and storage operations for dry bulk cargo

Elective 2: Containerized Cargo

This unit is about supervision of cargo handling and storage operations for containerized cargo including reefer cargo

Options

Option 1: Agency Operations

This unit is about developing relations with key accounts and developing new business with existing and new customers

Option 2: Container Tracking and Vessel Planning

This unit is about reporting on position of different containers across the globe and making berthing and terminal plans for vessels docking for the week

Personal Attributes:

The job holder should plan and budget for activities. S/he should have digital/computer skills and mathematical aptitude to estimate yard space requirement, and quantity estimation. S/he should have English and Vernacular language proficiency, demonstrable in spoken, written and oral communication





Qualifications Pack Code	LSC/Q3501		
Job Role	Ship and yard planning supervisor		
Credits(NSQF)	TBD	Version number	1.0
Sector	Logistics	Drafted on	30/06/2018
Sub-sector	Port terminals, CFS and ICDs	Last reviewed on	04/05/2019
Occupation	Port Operation and Management	Next review date	04/05/2022
NSQC Clearance on	DD/MM/YYYY		
Effective from		DD/MM/YYYY	

Job Role	Ship and yard planning supervisor
Role Description	The individual would be responsible for cargo planning, storage and movement in the yard at port terminal for optimal utilisation. S/He will also be responsible for resource allocation and required statutory documentation to ensure smooth operations.
NSQF Minimum Educational Qualifications Maximum Educational Qualifications	5 Graduate (or) Diploma/ Class XII with relevant experience (or) Class X with relevant experience -
Prerequisite License or Training	Not Applicable for License. Should be proficient and cleared Level 4
Minimum Job Entry Age	21 years
Experience	Diploma/ Class XII with 3 years of experience in Warehouse and EXIM/ Ports, ICD& CFS operations (or) Class X with 5 years of experience in Warehouse and EXIM/ Ports, ICD & CFS operations
Applicable National Occupational Standards (NOS)	Compulsory: 1. LSC/N3501 Allocate resources and streamline operations at yard 2. LSC/N3502 Yard planning and cargo handling 3. LSC/N3504 Handle hazardous goods 4. LSC/N0321 Documentation related to port clearance and cargo 5. LSC/N9904 Maintain and monitor integrity and ethics in operations 6. LSC/N9905 Follow and monitor health, safety and security procedures Electives (mandatory to select one): Elective 1: Dry Bulk Cargo 1.1 LSC/N3505 Handle dry bulk cargo



Qualifications Pack for ship and yard planning supervisor



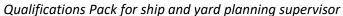
	Elective 2: Containerized Cargo
	2.1 LSC/N3506 Handle container cargo
	
	Options (Not mandatory):
	, , , , , , , , , , , , , , , , , , , ,
	Outland. Assume Outside
	Option 1: Agency Operations
	1.1 LSC/N9701 Business development and stakeholder relations
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	Option 2: Container Tracking and Vessel Planning
	2.1 LSC/N3508 Track containers globally and plan for vessel docking
Performance Criteria	As described in the relevant OS units





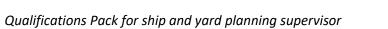
Keywords /Terms	Description
Core Skills/Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the NOS, these include communication related skills that are applicable to most job roles.
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of NOS.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context
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 atleast 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.
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.
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
Organisational Context	Organisational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
Qualifications Pack(QP)	Qualifications Pack comprises the set of NOS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Scope	Scope is the 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 the quality of performance required.
Sector	Sector is a conglomeration of different business operations having similar businesses 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.
Sub-functions	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.









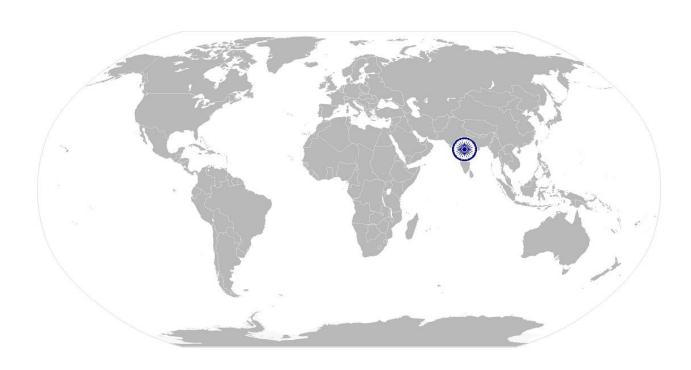
Keywords /Terms	Description
CFS	Container Freight Station
DG	Directorate General
ERP	Enterprise Resource Planning
EXIM	Export Import
GPS	Global Positioning System
GSU	Grab Ship Unloader
HAZCHEM	Hazardous Chemicals
HR	Human Resources
ICD	Inland Container Depot
IMDG	International Maritime Dangerous Goods
IMSBC	International Maritime Solid Bulk Cargo
JIT	Just In Time
MHE	Material Handling Equipment
NSQF	National Skills Qualifications Framework
OSHA	Occupational Safety and Health Administration
OH&S	Occupational Health and Safety
OS	Occupational Standards
PGA	Partner Government Agencies
PPE	Personal Protective Equipment
QP	Qualifications Pack
RFID	Radio-Frequency Identification
SLA	Service Level Agreement
SOP	Standard Operating Procedures
TAT	Turn Around Time
VHF	Very High Frequency







National Occupational Standard



Overview

This unit is about allocating resources and streamlining operations at a port terminal yard







LSC/N3501 Allocate resources and streamline operations at yard

Unit Code	LSC/N3501
Unit Title (Task)	Allocate resources and streamline operations at yard
Description	This unit is about allocating resources for cargo movement, supervision of operations and streamlining operations at yard
Scope	This unit/task covers the following:
	Prepare work plan and allocate resources
	Monitor daily operations
	Yard Inspection
	Resolve escalated issues
	Range: Stationery, Radio-Frequency Identification (RFID) scanner, bar code scanner,
	plastic bags, markers, Personal Protective Equipment (PPEs), Enterprise Resource
	Planning (ERP), computer, printers, Global Positioning System (GPS) tracker,
	Material Handling Equipment (MHEs), etc.

Performance Criteria(PC) w.r.t. the scope

Element	Performance Criteria		
Prepare work plan	To be competent, the user/ individual must be able to:		
and allocate	PC1. obtain details of vessel docking plans, cargo and container movement plans,		
resources	etc.		
	PC2. develop daily work plan factoring in priority cases, time bound requirements,		
	special handling requirements, etc.		
	PC3. get the work plan approved by the yard manager or Container Freight Station		
	(CFS)/ Inland Container Depot (ICD) manager and allocate tasks to		
	subordinates		
	PC4. budget and allocate the requisite MHE for tasks at hand		
	To be competent, the user/individual on the job must be able to:		
	PC5. inspect yard for markings/demarcation, storage and cleanliness as per safety		
	norms		
	PC6. monitor cargo loading, unloading and movement operations		
Monitor daily	PC7. engage resources in alternate operation when there is a delay of planned operations		
operations	PC8. allocate additional and ad-hoc manpower and equipment during exigency		
	PC9. escalate issues regarding MHE operations, transporter delays, vessel delays,		
	accidents, damages, etc. to manager		
	PC10. provide corrective and preventive action plans based on accident and damage		
	reports		
	PC11. liaise with port officials, customs officials and external stakeholders		
Yard inspection	To be competent, the user/ individual must be able to:		
	PC12. conduct periodic inspection of the yard for cleanliness, usage of PPEs and		







LSC/N3501	Allocate resources and streamline operations at yard	
Resolve escalated issues	adherence to SOP and regulations PC13. ensure cargo bays are clearly marked and segregated, containers and cargo are stored as per prescribed norms PC14. check for parking and positioning of equipment as per SOP PC15. ensure all necessary precautions for storage of hazardous cargo are complied with and emergency services are available PC16. submit inspection report highlighting any deviation from SOP To be competent, the user/ individual must be able to: PC17. review escalated issues and identify root cause for providing corrective action PC18. provide technical guidance to the team for execution PC19. escalate the issues to manager when external or additional help is required PC20. coordinate with other departments, transporters, freight operators, port authorities, shipping companies and others to resolve escalations if required	
Knowledge and unders	tanding (K)	
A. Organizational context (Knowledge of the company / organization and its processes)	The individual on the job needs to know and understand: KA1. organizational and security procedures KA2. documentation and reporting as per organization's mandate KA3. escalation matrix for reporting identified problems KA4. risk and impact of not following defined procedures/work instructions KA5. coding system followed to label cargo KA6. IT system and ERP system of the organization	
B. Technical knowledge	The individual on the job needs to know and understand: KB1. yard operations and its technicalities KB2. different type of cranes and MHEs – their capacities, constraints and usage KB3. use of rope, flags and other manual equipment KB4. vessel layout and loading and unloading activities KB5. different type of vessels, cargo, container sizes and their handling KB6. handling of hazardous and non-hazardous cargo – International Maritime Dangerous Goods (IMDG) code KB7. stuffing and de-stuffing norms with respect to different cargo and its special characteristics	
Skills (S)		
A. Core skills/ generic skills	Reading skills The user/individual on the job needs to know how to read: SA1. written instructions SA2. shiping manifest, Bill of lading shipping bills and related documents SA3. ERP and computer generated reports SA4. cargo stowage plans and vessel plans SA5. Standard Operating Procedures (SOPs) and safety regulation manuals	
	Writing skills	







The user/individual on the job needs to know how to write: SA6. work-orders and instructions SA7. checklist of activities, delays, undelivered items, contacts, etc SA8. daily reports Oral communication (listening and speaking skills) The user/individual on the job needs to know how to: SA9. communicate with customers, fireght operators, transporters, shipping companies, other supervisors and port authorities SA10. communicate with cargo equipment operators and ground staff over Very High Frequency (VHF) radio SA11. guide cargo handlers for smooth operations Decision making The user/individual on the job-needs to know how to:
SA7. checklist of activities, delays, undelivered items, contacts, etc SA8. daily reports Oral communication (listening and speaking skills) The user/individual on the job needs to know how to: SA9. communicate with customers, fireght operators, transporters, shipping companies, other supervisors and port authorities SA10. communicate with cargo equipment operators and ground staff over Very High Frequency (VHF) radio SA11. guide cargo handlers for smooth operations Decision making
SA8. daily reports Oral communication (listening and speaking skills) The user/individual on the job needs to know how to: SA9. communicate with customers, fireght operators, transporters, shipping companies, other supervisors and port authorities SA10. communicate with cargo equipment operators and ground staff over Very High Frequency (VHF) radio SA11. guide cargo handlers for smooth operations Decision making
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B. Professional skills Decision making
The user/individual on the job, needs to know how to:
THE user/individual off the job freeds to know flow to:
SB1. decide on required workforce and equipment for performing a particular task
SB2. assess the environmental condition and type of cargo to assess if it is safe for
operations
SB3. resolve a problem quickly internally
SB4. prioritise shipments
SB5. decide on deployment of alternate resurces when required
Plan and organize
The user/individual on the job needs to know how to:
SB6. plan and estimate the co-ordination required for resolving a querry.
SB7. maintain punctuality
SB8. respond to the client in a timely manner
SB9. prioritize and execute tasks based on client requirements
SB10. make work plans and resource allocation plans
SB11. make checks on execution of work plans
SB12. be a team player and achieve joint goals
Customer centricity
The user/individual on the job needs to know how to:
SB13. adhere to the customer timelines
SB14. address the urgency regarding shipments and activities
Problem solving
The user/individual on the job needs to know how to:
SB15. make adjustment to working requirements for difficult weathers and
hazardous goods
SB16. identify trends/common causes for delays, damages, etc.
SB17. co-ordinate and handle major issues with different departments
SB18. identify bottlenecks and operational problems and suggest remedial action







LSC/N3501	Allocate resources and streamline operations at yard		
	Analytical thinking		
	The user/individual on the job needs to know how to:		
	SB19. assess the resource requirement for a particular task at hand		
	SB20. assess and prepare for backup resources in case of delays		
	SB21. plan for cargo movement so that the resources and stroage space is optimally		
	utilised		
	Critical thinking		
	The user/individual on the job needs to know and understand how to:		
	SB22. resolve issues in a qucik and cost effective manner		
	SB23. develop work plans factoring in external factors		
	SB24. Check that all security measures and safety protocals are followed at all times		

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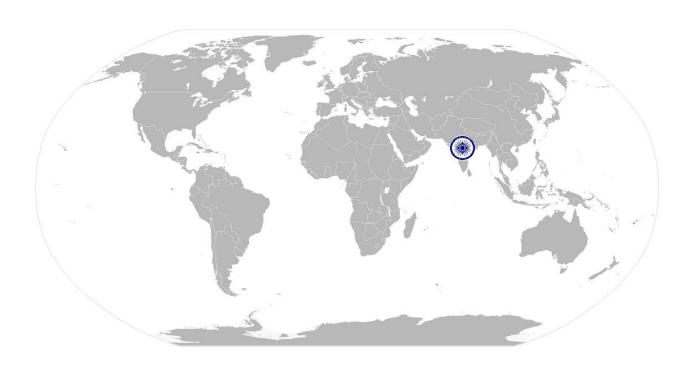
NOS Code		LSC/N3501	
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	30/06/2018
Industry Sub-sector	Port terminals, ICD and CFS	Last reviewed on	28/03/2019
Occupation	Port Operations and Management (cargo handling, yard planning, vessel planning)	Next review date	28/03/2022







National Occupational Standard



Overview

This unit is about planning the container and cargo storage in the yard and overseeing movement operations







LSC/N3502 Yard planning and cargo handling

Unit Code	Yard planning and cargo handling This unit is about yard planning for cargo storage, supervision of movement of cargo and preparing reports This unit/task covers the following:		
Unit Title (Task)			
Description			
Scope			
	Review yard utilisation and plan for storage requirement		
	Prepare for cargo movement		
	Supervise cargo movement		
	Report and Document		
	Range: Stationery, Standard Operating Procedures (SOP), Radio-Frequency		
	Identification (RFID) scanner, bar code scanner, markers, Personal Protective		
	Equipment (PPEs), Enterprise Resource Planning (ERP), computer, display board,		
	printer, Material Handling Equipment (MHEs), etc.		

Performance Criteria(PC) w.r.t. the scope

Element	Performance Criteria		
Review yard utilisation and plan for storage requirement	PC1. check yard space utilization data in terms of open and closed yards, dry bulk cargo vs container, and assess available storage capacity PC2. review ageing of cargo and containers in yard, identify reasons for delay, and enable timely movement PC3. identify and finalise bays for storage of incoming cargo considering the various demarcations and precautions to be taken particularly for hazardous and dry bulk cargo PC4. plan for yard traffic and material movement routes considering terminal layout, container and cargo type, and available equipment PC5. prepare goods storage plans based on vessel berthing plan and get it approved by the terminal manager		
	PC6. escalate issues to terminal manager if required		
Prepare for cargo	To be competent, the user/ individual must be able to:		
movement	 PC7. obtain vessel information related to docking schedule, berth, bays and containers to be unloaded/ loaded PC8. obtain information regarding movement of containers/ cargo from port terminals to Container Freight Station/ Inland Container Depot (CFS/ ICD) or client PC9. communicate and finalise cargo movement plan with lifting supervisors, vessel supervisors, cargo equipment handlers, and manual cargo handlers PC10. ensure that all equipment and workforce are ready for operations at the time of vessel docking / transport arrival 		







LSC/N3502 Yard planning and cargo handling

	PC11. ensure all necessary precautions are taken and adequate PPEs are used	
Supervise cargo	To be competent, the user/ individual must be able to:	
movement	PC12. coordinate with vessel docking supervisor/ transport supervisor and vessel	
	officer and get a go-ahead for cargo/ container loading/ unloading	
	PC13. coordinate with cargo surveyor for receiving 'safe and secured' go-ahead	
	before loading/ unloading	
	PC14. address the queries of shipping lines and agents regarding cargo operations	
	and storage	
	PC15. check that all cargo handling activities executed are as per schedule and SOP	
	PC16. document damages to cargo/ container during loading/ unloading	
	PC17. provide guidance and resolve/escalate any issues faced in loading/ unloading	
	PC18. check that all cargo is stored at the planned/allocated storage location in the	
	yard	
Report and	To be competent, the user/ individual must be able to:	
Document	PC19. obtain 'safe and secured' go-ahead from the cargo surveyor upon completion	
	of loading/ unloading activities	
	PC20. collect counter signature from transporter for actuals received or dispatched	
	PC21. check consignments received against order and delivery documentation to	
	confirm that the quality, quantity an indition of the cargo is acceptable,	
	identifying and referring any discrepancies	
	PC22. maintain records relating to the receipt / storage / despatch of cargo,	
	ensuring that these are up to date and complete	
	PC23. check if receipt and delivery are documented in ERP	
	PC24. prepare daily report highlighting the cargo storage and movement, plan vs	
	actual performance, cargo ageing, details of accidents and damages if any	
Knowledge and unders	derstanding (K)	
A. Organizational	The individual on the job needs to know and understand:	
context	KA1. organizational procedures	
(Knowledge of the	KA2. documentation and reporting as per organization's mandate	
company /	KA3. security procedures to be followed	
organization and	KA4. escalation matrix for reporting identified problems	
its processes)	risk and impact of not following defined procedures/work instructions	
	KA5. risk and impact of not following defined procedures/work instructions	
	KA6. coding system followed to label cargo	
B. Technical	KA6. coding system followed to label cargo KA7. IT system and ERP system of the organization	
	KA6. coding system followed to label cargo KA7. IT system and ERP system of the organization The individual on the job needs to know and understand:	
B. Technical knowledge	KA6. coding system followed to label cargo KA7. IT system and ERP system of the organization The individual on the job needs to know and understand:	
	 KA6. coding system followed to label cargo KA7. IT system and ERP system of the organization The individual on the job needs to know and understand: KB1. basics of operations in a port terminal, ICD and CFS 	







LSC/N3502	Yard planning and cargo handling		
	KB5. procedures of tank cleaning, cargo movement		
	KB6. requirements regarding handling of cargo		
	KB7. different type of vessels and cargo and container sizes		
	KB8. different type of cranes and MHEs – their capacities, constraints and usage		
	KB9. handling of hazardous and non-hazardous cargo - – International Maritime		
	Dangerous Goods (IMDG) code		
	KB10. marking of material and people movement areas		
	KB11. stuffing and de-stuffing norms with respect to different cargo		
	KB12. special characteristics and handling requirements of shipments, if any		
Skills (S)			
C. Core skills/ Reading skills			
generic skills	The user/individual on the job needs to know how to read:		
	SA1. written instructions		
	SA2. shiping manifest, Bill of lading shipping bills and related documents		
	SA3. ERP and computer generated reports		
	SA4. cargo stowage plans and vessel plans		
	SA5. SOPs and safety regulation manuals		
	Writing skills		
	The user/individual on the job needs to know how to write:		
	SA6. work-orders and instructions		
	SA7. checklist of activities, delays, undelivered items, contacts, etc		
	SA8. daily reports		
	Oral communication (listening and speaking skills)		
	The user/individual on the job needs to know how to:		
	SA9. communicate with customers, fireght operators, transporters, shipping		
	companies, other supervisors and port authorities		
	SA10. communicate with cargo equipment operators and ground staff over VHF		
	radio		
	SA11. guide cargo handlers for smooth operations		
D. Professional skills	Decision making		
	The user/individual on the job needs to know how to:		
	SB1. decide on required workforce and equipment for performing a particular task		
	SB2. assess the environmental condition and type of cargo to assess if it is safe for		
	operations		
	SB3. resolve a problem quickly internally		
	SB4. prioritise shipments		
	SB5. decide on deployment of alternate resources when required		
	Plan and organize		
	The user/individual on the job needs to know how to:		
	The aser/individual off the job freeds to know how to.		







LSC/N3502	N3502 Yard planning and cargo handling		
	SB6. plan and estimate the co-ordination required for resolving a querry.		
	SB7. maintain punctuality		
	SB8. respond to the client in a timely manner		
	SB9. prioritize and execute tasks based on client requirements		
	SB10. make work plans and resource allocation plans		
	SB11. make checks on execution of work plans		
	SB12. be a team player and achieve joint goals		
Customer centricity			
	The user/individual on the job needs to know how to:		
	SB13. adhere to the customer timelines		
	SB14. address the urgency regarding shipments and activities		
Problem solving			
The user/individual on the job needs to know how to:			
SB15. make adjustment to working requirements for difficult weathers and			
	hazardous goods		
	SB16. identify trends/common causes for delays, damages, etc.		
	SB17. co-ordinate and handle major issues with different departments		
	SB18. identify bottlenecks and operational problems and suggest remedial action		
Analytical thinking			
	The user/individual on the job needs to know how to:		
	SB19. assess the resource requirement for a particular task at hand		
	SB20. assess and prepare for backup resources in case of delays		
	SB21. plan for cargo movement so that the resources and stroage space is optimally		
utilised			
Critical thinking			
	The user/individual on the job needs to know and understand how to:		
	SB22. resolve issues in a qucik and cost effective manner		
	SB23. develop work plans factoring in external factors		
	SB24. check that all security measures and safety protocals are followed at all times		

NOS Version Control

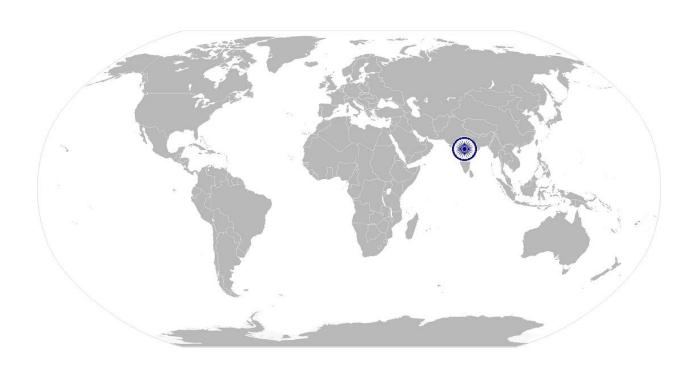
1105 version control			
NOS Code	LSC/N3502		
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	30/06/2018
Industry Sub-sector	Port terminals, CFS and ICDs	Last reviewed on	28/03/2019
Occupation	Port operation and management (cargo handling, yard planning)	Next review date	28/03/2022







National Occupational Standard



Overview

This unit is about handling hazardous cargo at port terminals, CFS and ICD







Handle hazardous goods

Unit Code Unit Title (Task) Description The unit is about handling hazardous cargo at port terminals, CFS and ICDs This unit/task covers the following: • Identify and segregate hazardous cargo • Oversee that adequate precuations are taken while handling hazardous goods • Inspect and review storage of hazardous cargo Range: Stationery, Standard Operating Procedures (SOP), Radio-Frequency Identification (RFID) scanner, bar code scanner, markers, Personal Protective Equipment (PPEs), Enterprise Resource Planning (ERP), computer, display board, printer, Material Handling Equipment (MHEs), etc. Performance Criteria(PC) w.r.t. the scope Element Identify and segregate hazardous goods PC1 read and interpret different cargo labels associated with different class and types of hazardous goods PC2 check for permissible limits and available documentation for hazardous goods as per approvals and acceptable specifications PC3. check IMDG code to identify the precautions and permissible limits for handling PC4. ensure that the port and yard terminal if the port is equipped to handle the identified class of hazardous goods PC5. check if all the necessary precautions, PPEs and emergency response teams are in position prior to loading/unloading of cargo PC6. check that the allocated storage bay in the yard is adequately separated and precautions with respect to heat, light, temperature control, etc. are taken PC7. provide instructions for segregation of hazard goods as per classification PC8. use separate teams for handling different classes of hazardous goods	LSC/N5504 Handle nazardous goods				
Crask Handle hazardous goods	Unit Code	LSC/N3504			
This unit/task covers the following: • Identify and segregate hazardous cargo • Oversee that adequate precuations are taken while handling hazardous goods • Inspect and review storage of hazardous cargo Range: Stationery, Standard Operating Procedures (SOP), Radio-Frequency Identification (RFID) scanner, bar code scanner, markers, Personal Protective Equipment (PPEs), Enterprise Resource Planning (ERP), computer, display board, printer, Material Handling Equipment (MHEs), etc. Performance Criteria (PC) w.r.t. the scope Element Performance Criteria Identify and segregate hazardous goods PC1 read and interpret different cargo labels associated with different class and types of hazardous goods PC2: check for permissible limits and available documentation for hazardous goods as per approvals and acceptable specifications PC3. check IMDG code to identify the precautions and permissible limits for handling PC4. ensure that the port and yard terminal if the port is equipped to handle the identified class of hazardous goods PC5. check if all the necessary precautions, PPEs and emergency response teams are in position prior to loading/unloading of cargo PC6. check that the allocated storage bay in the yard is adequately separated and precautions with respect to heat, light, temperature control, etc. are taken PC7. provide instructions for segregation of hazard goods as per classification use separate teams for handling different classes of hazardous goods					
Identify and segregate hazardous cargo Oversee that adequate precuations are taken while handling hazardous goods Inspect and review storage of hazardous cargo Range: Stationery, Standard Operating Procedures (SOP), Radio-Frequency Identification (RFID) scanner, bar code scanner, markers, Personal Protective Equipment (PPEs), Enterprise Resource Planning (ERP), computer, display board, printer, Material Handling Equipment (MHEs), etc. Performance Criteria(PC) w.r.t. the scope Element Identify and segregate hazardous goods PC2. read and interpret different cargo labels associated with different class and types of hazardous goods PC2. read and interpret and available documentation for hazardous goods as per approvals and acceptable specifications PC3. check IMDG code to identify the precautions and permissible limits for handling PC4. ensure that the port and yard terminal if the port is equipped to handle the identified class of hazardous goods PC5. check if all the necessary precautions, PPEs and emergency response teams are in position prior to loading/unloading of cargo PC6. check that the allocated storage bay in the yard is adequately separated and precautions with respect to heat, light, temperature control, etc. are taken PC7. provide instructions for segregation of hazard goods as per classification use separate teams for handling different classes of hazardous goods	Description	The unit is about handling hazardous cargo at port terminals, CFS and ICDs			
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Oversee that To be competent, the user/ individual must be able to: adequate PC9. check if appropriate PPEs. MHEs and other equipment are being used to					
are southing and taken	-				
while handling					
hazardous goods	hazardous goods				
PC11. ensure all precautions are taken as per SOP while handling hazardous cargo					
PC12. confirm emergency response action with the emergency team and cargo handling team prior to operations					
PC13. inspect containers for damages, leakage, exposure and labels					
PC13. Inspect containers for damages, leakage, exposure and labels PC14. check if cargo movement via conveyors, dump trucks is spillage free					
PC15. ensure clear and obstacle free movement of cargo from vessel to yard and					







LSC/N3504 Handle hazardous goods

LSC/N3504 Handle hazardous goods				
	yard to transport			
	PC16. ensure that all required precautions and segregation for cargo storage are			
	undertaken			
	PC17. report closure of exercise highlighting handling losses, storage location and			
	coordinates, etc.			
Inspect and review	To be competent, the user/ individual must be able to:			
storage of hazardous	PC18. periodically inspect yard space to check if adequate segregation and			
goods	precautions are taken for storage of hazardous goods			
	PC19. report to manager in case of any leakage, damages, exceptions in handling			
	precautions and segregation			
	PC20. document and file inspection reports			
Knowledge and unders	tanding (K)			
A. Organizational	The individual on the job needs to know and understand:			
context	KA1. organizational procedures			
(Knowledge of the	KA2. documentation and reporting as per organization's mandate			
company /	KA3. security procedures to be followed			
organization and its processes)	KA4. escalation matrix for reporting identified problems			
its processes;	KA5. risk and impact of not following defined procedures/work instructions			
	KA6. coding system followed to label carg			
	KA7. IT system and ERP system of the organization			
B. Technical	The individual on the job needs to know and understand:			
knowledge	KB1. basics of operations in a port terminal, Inland Container Depot (ICD) and			
	Container Freight Station (CFS)			
	KB2. different type of vessels and cargo and container sizes			
	KB3. vessel layout and loading and unloading activities			
	KB4. use of rope, flags and other manual equipment			
	KB5. different type of cranes and MHEs – their capacities, constraints and usage			
	KB6. identifying dangerous goods/hazardous substances using labels, International			
	Maritime Dangerous Goods (IMDG) Code markings, Hazardous Chemicals			
	(HAZCHEM) signs and other relevant identification criteria			
	KB7. handling of hazardous and non-hazardous cargo			
	KB8. identifying job and site hazards, and planning work to minimise risks			
	KB9. selecting and using the right PPE equipment as per the industry standards			
	KB10. procedures of tank cleaning, cargo movement			
	KB11. marking of material and people movement areas			
	KB12. stuffing and de-stuffing norms with respect to different cargo			
	KB13. special characteristics and handling requirements of shipments, if any			
	KB14. usage of electronic communication equipment			
Skills (S)				
C. Core skills/	Reading skills			







Handle hazardous goods

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generic skills	The user/individual on the job needs to know how to read:		
	SA1. written instructions		
	SA2. shiping manifest, Bill of lading shipping bills and related documents		
	SA3. ERP and computer generated reports		
	SA4. cargo stowage plans and vessel plans		
	SA5. SOPs and safety regulation manuals		
	Writing skills		
	The user/individual on the job needs to know how to write:		
	SA6. work-orders and instructions		
	SA7. checklist of activities, delays, undelivered items, contacts, etc		
	SA8. daily reports		
	Oral communication (listening and speaking skills)		
	The user/individual on the job needs to know how to:		
	SA9. communicate with customers, freight operators, transporters, shipping		
	companies, other supervisors and port authorities		
	SA10. communicate with cargo equipment operators and ground staff over VHF radio		
	SA11. guide cargo handlers for smooth operations		
D. Professional skills			
	The user/individual on the job needs to know-how to:		
	SB1. decide on required workforce and equipment for performing a particular task		
	SB2. assess the environmental condition and type of cargo to assess if it is safe for		
	operations		
	SB3. resolve a problem quickly internally		
	SB4. prioritise shipments		
	SB5. decide on deployment of alternate resources when required		
	Plan and organize		
	The user/individual on the job needs to know how to:		
SB6. plan and co-ordinate resolution of queries			
	SB7. maintain punctuality		
SB8. respond to the client in a timely manner			
	SB9. prioritize and execute tasks based on client requirements		
	SB10. make work plans and resource allocation plans		
	SB11. make checks on execution of work plans		
	SB12. be a team player and achieve joint goals		
	Customer centricity		
	The user/individual on the job needs to know how to:		
	SB13. adhere to the customer timelines		
	SB14. address the urgency regarding shipments and activities		
	Problem solving		
	The user/individual on the job needs to know how to:		
	The decimalification the job freeds to know how to.		







Handle hazardous goods

SB15. make adjustment to working requirements for difficult weathers and hazardous
goods
SR16 identify trends/common causes for delays, damages, etc.

SB16. identify trends/common causes for delays, damages, etc.

SB17. co-ordinate and handle major issues with different departments

SB18. identify bottlenecks and operational problems and suggest remedial action

Analytical thinking

The user/individual on the job needs to know how to:

SB19. assess the resource requirement for a particular task at hand

SB20. assess and prepare for backup resources in case of delays

SB21. plan for cargo movement so that the resources and storage space is optimally utilised

Critical thinking

The user/individual on the job needs to know and understand how to:

SB22, resolve issues in a quick and cost-effective manner

SB23. develop work plans factoring in external factors

SB24. check that all security measures and safety protocals are followed at all times

NOS Version Control



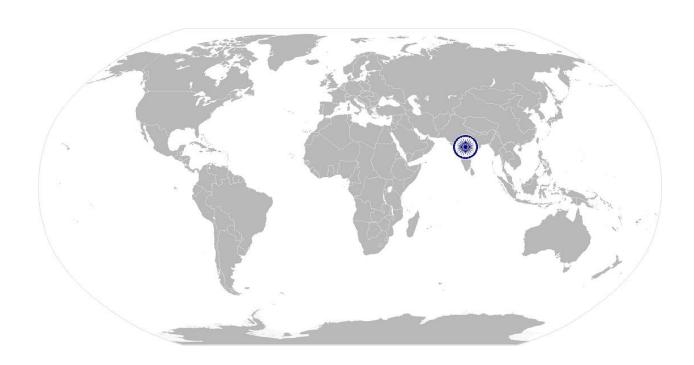
NOS Code		LSC/N3504	
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	30/06/2018
Industry Sub-sector	Port terminals, CFS and ICDs	Last reviewed on	28/03/2019
Occupation	Port operation and management (cargo handling)	Next review date	28/03/2022







National Occupational Standard



Overview

This unit is about reviewing port and cargo documentation, documenting regulatory compliances and coordinating for the same







LSC/N0321	Review port and	l cargo documentatio	on and regula	tory compliances

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Unit Code	LSC/N0321		
Unit Title (Task)	Review port and cargo documentation and regulatory compliances		
Description	This unit is about reviewing port and cargo documentation, documenting regulatory compliances and coordinating for same		
Scope	This unit/task covers the following:		
	Review port and cargo documentation		
	Coordinate and perform customer service		
	Range: Instructional material, Standard Operating Procedure (SOP), safety guidelines,		
	safety signs, computer, projector etc.		
Performance Criteria(PC) w.r.t. the scope			
Element	Performance Criteria		
Review port and	To be competent, the user/individual must be able to:		
cargo documentation	PC1. coordinate with shipping liners, vessel operators, freight transporters,		
	importers and exporters as well as the port authorities to obtain requisite		
	cargo documents		
	PC2. review documentation of transport vehicles and their certificates for fitness		
	for operation, presence of requisite license, etc.		
	PC3. review cargo documents like bill of lading, shipping bills, PGA (Participative		
	Government Agencies) clearances, etc. for compliance to regulations and standards		
	PC4. prepare and review storage plans and yard layout to check for compliances		
	particularly regarding hazardous and reefer cargo PC5. review fitness certificates and related documents regarding operations of		
	PC5. review fitness certificates and related documents regarding operations of various Material Handling Equipment (MHEs), cranes and terminal equipment		
	PC6. review and approve gate entry and exit passes for transporters, vehicles		
	PC7. prepare and review compliance reports regarding yard and terminal layout,		
	fitness of equipment and personnel, various incidents, cargo handling, etc.		
Coordinate and	To be competent, the user/individual must be able to:		
perform customer	PC8. respond and resolve queries raised by port and custom authorities, custom		
service	brokers, shipping liners, clients, transporters regarding status of different shipments		
	PC9. coordinate between the vessel, shipper/ importer, agents and port		

authorities to ensure that all compliances and requirements are met

knowledge and understanding (k)







LSC/N0321	Review port and	cargo documentati	on and regulatory	y compliances

A. Organizational	The individual on the job needs to know and understand:
context	KA1. organizational procedures
(Knowledge of the	KA2. documentation and reporting as per organization's mandate
company /	KA3. security procedures to be followed
organization and	KA4. escalation matrix for reporting identified problems
its processes)	KA5. risk and impact of not following defined procedures/work instructions
	KA6. coding system followed to label cargo
	KA7. it system and ERP system of the organization
B. Technical	The individual on the job needs to know and understand:
knowledge	KB1. basics of operations in a port terminal, ICD and CFS
	KB2. use of various cargo handling equipment
	KB3. vessel layout and loading and unloading activities
	KB4. yard layout and yard planning
	KB5. procedures of cargo movement and related compliances
	KB6. requirements regarding handling of cargo
	KB7. different type of vessels and cargo and container sizes
	KB8. different type of cranes and MHEs – their capacities, constraints and usage
	KB9. handling of hazardous and non-hazardous cargo
	KB10. marking of material and people movement areas
	KB11. stuffing and de-stuffing norms with respect to different cargo KB12. special characteristics and handling requirements of shipments, if any
	RB12. Special characteristics and handling requirements of shipments, if any
skills (s)	
skills (s) A. Core skills/	Reading skills
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LSC/N0321 Review port and cargo documentation and regulatory compliances

The use	er/individual on the job needs to know how to:
SR1	chack if the cargo vehicle or operation meets compliance

- SB1. check if the cargo, vehicle or operation meets compliance
- SB2. decide on the approproate response and documentation of different queries and events

Plan and organize

The user/individual on the job needs to know how to:

- SB3. plan and estimate the co-ordination required for resolving a querry.
- SB4. maintain punctuality and respond n a timely manner
- SB5. prioritize and execute tasks based on client requirements
- SB6. make work plans and resource allocation plans
- SB7. make checks on execution of work plans
- SB8. be a team player and achieve joint goals

Customer centricity

The user/individual on the job needs to know how to:

- SB9. adhere to assigned timelines and compliance requirements
- SB10. address the urgency regarding shipments and activities

Problem solving

The user/individual on the job needs to know how to:

- SB11. identify trends/common causes for delays, damages, etc.
- SB12. co-ordinate and handle major issues with different departments
- SB13. provide suggestions for meeting compliance in different activities

Analytical thinking

The user/individual on the job needs to know how to:

- SB14. anticipate compliance requirements for different activities
- SB15. review yard plans to ensure storage yard meets complaince

Critical thinking

The user/individual on the job needs to know and understand how to:

- SB16. ensure complaince in all documentation and operations
- SB17. check that all security measures and safety protocals are followed at all times

NOS Version Control

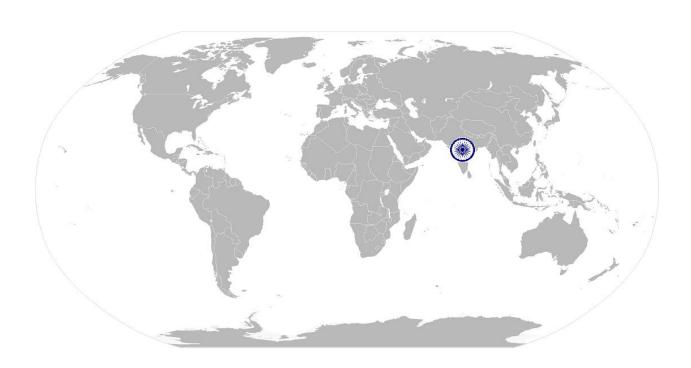
NOS Code	LSC/N0321		
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	30/06/2018
Industry Sub-sector	Port terminals, CFS and ICDs	Last reviewed on	28/03/2019
Occupation	Documentation and reporting (including compliance)	Next review date	28/03/2022







National Occupational Standard



Overview

This unit is about maintaining integrity, ensuring data security, and professional and ethical practice







LSC/11/207 Maintain and moment integrate and cines in operations	LSC/N9904	Maintain and monitor integrity and ethics in operations
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Unit Code	LSC/N9904	
Unit Title (Task)	Maintain and monitor integrity and ethics in operations	
Description	This unit is about maintaining integrity, ensuring data security, and following professional and ethical practices	
Scope	This unit/task covers the following: Maintain integrity and ensure data security Professional and ethical practice Ensure regulatory compliance Range: Standard Operating Procedures (SOP), worksheets, computer, projector, printer, display board and markers	

Performance Criteria(PC) w.r.t. the scope

Element	Performance Criteria
Maintain integrity	To be competent, the user/ individual must be able to:
ensuring data	PC1. refrain from indulging in corrupt practices
security	PC2. avoid using company's funds, property or resources for undertaking personal
	activities
	PC3. protect customer's information and erspe it is not misused
	PC4. protect data and information related to business or commercial decisions
Professional and	To be competent, the user/ individual must be able to:
ethical practice	PC5. avoid acceptance of cash or kind from vendors for support or contract
	negotiations
	PC6. demonstrate and practice ethics in day-to-day processes and dealings with
	customers and colleagues
	PC7. avoid nepotism
	PC8. consult supervisor or senior management when in situations that may require
	differentiating between ethical and unethical
	PC9. report promptly all violations of code of ethics
	PC10. dress up and conduct in a professional manner
	PC11. communicate with clients and stakeholders in a soft and polite manner
	PC12. follow etiquettes in accordance to the place
Ensure regulatory	To be competent, the user/ individual must be able to:
compliance	PC13. check for regulatory documentation and compliances for the shop floor as per
	information from the supervisor
	PC14. perform activities considering the regulatory requirements
	PC15. use PPEs in accordance to regulatory requirements
	PC16. identify the different types of dangerous goods and handling methodologies
	PC17. follow the SOP for handling of different types of dangerous goods
	PC18. consult supervisor or senior management when in situations that may require
	differentiating between ethical and unethical







LSC/N9904	Maintain and monitor integrity and ethics in operations			
	PC19. promptly report all regulatory violations			
Knowledge and unders	Knowledge and understanding (K)			
A. Organizational	The user/individual on the job needs to know and understand:			
context	KA1. company's policies on use of language			
(Knowledge of the	KA2. company's Human Resources policies			
company / organization and	KA3. company's code of ethics and business			
its processes)	KA4. company's whistle blower policy			
its processes;	KA5. company's rules related to sexual harassment			
	KA6. company's reporting structure			
	KA7. company's documentation policy			
B. Technical	The user/individual on the job needs to know and understand:			
knowledge	KB1. principles of code of ethics and business ethics			
	KB2. different regulations and acts that are applicable for the sub-sector and			
	logistics sector as a whole			
	KB3. understand the documentary compliance required for different type of			
	products			
Skills (S)				
A. Core skills/	Reading skills			
generic skills	The individual on the job needs to know how ead:			
	SA1. policy documents and work related documents			
	SA2. emails letters and communications			
	SA3. acts and regulations			
	Writing skills			
	The individual on the job needs to know and understand how to write:			
	SA4. instructions, communications to internal staff			
	SA5. emails and letters			
	SA6. reports			
	Oral communication (listening and speaking skills)			
	The individual on the job needs to know how to:			
	SA7. interact with internal and external stakeholders			
	SA8. communicate with peers and subordinates			
	Decision making			
B. Professional skills	The individual on the job needs to know how to:			
	SB1. take appropriate action in a vulnerable situation			
	SB2. identify breaches and take necessary actions			
	SB3. identify documentary requirement for a specific product or regulation and			
	take necessary action			
	Plan and organize			
	The individual on the job needs to know how to:			
	SB4. plan and organise steps/ actions as per company's guidelines, if any violation			







LSC/N9904	Maintain and monitor integrity and ethics in operations		
		of code of ethics is noticed in the company	
	SB5.	plan and organise training sessions, sensitization sessions for work force	
	SB6.	plan review meetings to monitor compliance with ethics and regulations	
	Custon	Customer centricity	
	The individual on the job needs to know how to:		
	SB7. prevent company and customer information leakage		
	Problem Solving		
	The inc	The individual on the job needs to know how to:	
	SB8.	provide proper advice or guidance to colleagues to deal with sensitive issue	
	SB9.	suggest solutions to supervisors and workers when in an ethical dilemma	
	SB10.	identify conflict of interests and take necessary actions	
	Analyt	Analytical thinking	
	The individual on the job needs to know how to:		
	SB11. review reports to identify common trends of defaults		
	SB12. conduct review to analyse the reasons for default		
	Critical thinking		
	The inc	dividual on the job needs to know how to:	
	SB13. check that all regulatory compliances are adhered to		

check that any unethical behaviour gets captured before a damage or

NOS Version Control

SB14.

NOS Code		LSC/N9904	
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	30/06/2018
Industry Sub-sector	Generic	Last reviewed on	28/03/2019
Occupation	Generic	Next review date	28/03/2022

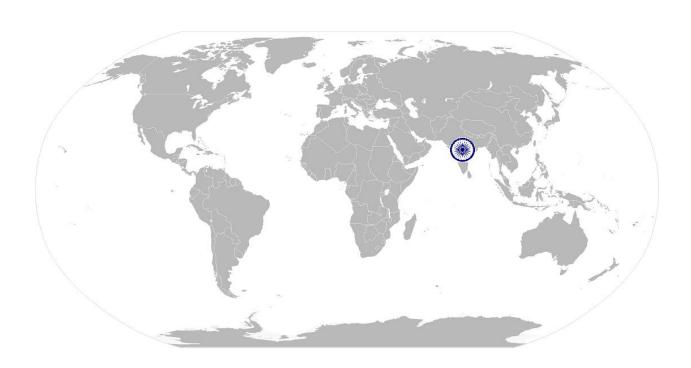
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National Occupational Standard



Overview

This unit is about ensuring compliance with health, safety and security procedures at the workplace.







LSC/N9905 Follow and monitor health, safety and security procedures

Unit Code	LSC/N9905
Unit Title (Task)	Follow and monitor health, safety and security procedures
Description	This OS unit is about ensuring compliance with health, safety and security procedures at the workplace.
Scope	 This unit/task covers the following: Follow health, safety and security procedures Ensure compliance to health, safety and security Range: Personal Protective Equipment (PPE), Material Handling Equipment (MHE), instructional material, safety guidelines, safety signs, computer, projector etc.
	 Ensure compliance to health, safety and security Range: Personal Protective Equipment (PPE), Material Handling Equipment (MHE),

Performance Criteria(PC) w.r.t. the scope

Element	Performance Criteria			
Follow health, safety	To be competent, the user/individual must be able to:			
and security	PC1. make note of all safety processes in different location (cargo loading area,			
procedures	ramp operation area, etc.) with reference to area of operation			
	PC2. wear all personal protective equipment (PPE) such as goggles, ear plugs,			
	helmet, mask, shoes, etc. as applicable in the cargo movement area			
	PC3. follow standard driving practice to ture safety of life and material			
	PC4. follow organizational protocol to deploy action in case of signs of any			
	emergency situation or accident or breach of safety			
	PC5. undertake periodical preventive health check ups			
	PC6. follow necessary standard operating procedures (SOP) and precautions			
	while handling dangerous and hazardous goods			
	PC7. follow security procedures like green gate in port, customs area, factory			
	security, etc.			
	PC8. comply with data safety regulations of the organisation			
	PC9. follow standard safety procedures while handling hazardous / fragile cargo			
	and walk only on the designated pathway			
Ensure compliance to	To be competent, the user/ individual must be able to:			
health, safety and	PC10. recognise unsafe conditions and safety practices at the workplace and			
security	report it to concerned authority			
	PC11. inspect the activity area and equipment for appropriate and safe condition			
	PC12. check if stacking is done at defined height and is not on the walk way			
	PC13. check if walk way is free from grease/ oil			
	PC14. check if emergency fire alarms, water sprinklers and smoke detectors are			
	installed at all places			
	PC15. participate in fire drills			
	PC16. check if standard material handling procedure are being followed			
	PC17. check if hold ladders, platforms and hand rails to be in a sound and safe			
	condition			
	22			







LSC/N9905	Follow and monitor health, safety and security procedures			
	PC18. check if all the safety and security related tags, labels and signage are			
	placed in the cargo			
	PC19. check if loading instrument is certified and operational			
	PC20. implement 5S at workplace			
	PC21. check if cargo has passed security checks and report in case of any violation			
Knowledge and unders	standing (K)			
A. Organizational	The individual on the job needs to know and understand:			
context	KA1. health, safety and security policies and procedures			
(Knowledge of the	KA2. Special instructions for hazardous cargo handling			
company /	KA3. defined standard operating procedures			
organization and	KA4. risk and impact of not following defined procedures/work instructions with			
its processes)	reference to health, safety and security operations			
	KA5. escalation matrix for reporting identified problem			
B. Technical	The individual on the job needs to know and understand:			
knowledge	KB1. basics of Occupational Safety and Health Administration (OSHA)			
	KB2. 5S implementation and practice			
	KB3. necessary security procedures for airport, customs area, etc.			
	KB4. tools and equipment for material handling			
	KB5. standard material handling procedures while handling cargo			
	KB6. safety and security signage and their functions			
	KB7. knowledge of security tags, labels and signage			
	KB8. handling procedure for hazardous / fragile cargo			
	KB9. security procedures for dangerous / hazardous goods			
	KB10. Different PPE, their usage and purpose			
	KB11. safe driving techniques			
Skills (S)				
A. Core skills/	Reading skills			
generic skills	The user/individual on the job needs to know how to read:			
	SA1. various procedures and standards related to health, safety and security			
	SA2. various documents related to security and movement of cargo			
	Writing skills			
	The user/individual on the job needs to know how to:			
	SA3. fill forms related to health, safety and security procedures			
	Oral communication (listening and speaking skills)			
	The user/individual on the job needs to know and understand how to:			
	SA4. communicate clearly with colleagues regarding safety procedures			
	SA5. share experience and provide guidance to peers			
B. Professional skills	Decision making			
	The user/individual on the job needs to know how to:			
	SB1. make a judgment as to what actions to be taken to avoid any damage /			







LSC/N9905	Follow and monitor health, safety and security procedures		
	accident to personal health / cargo handled		
	SB2. act objectively, rather than impulsively or emotionally when faced with		
	difficult/stressful or emotional situations		
	Plan and organize		
	The user/individual on the job needs to know how to:		
	SB3. plan clearance of cargo in manner that it does hamper the safety of the cargo		
	and the loader/unloader		
	SB4. prioritize and execute tasks within the schedule time limits		
	SB5. Plan emergency drills, fire drills and inspections		
	Customer centricity		
	The user/individual on the job needs to know and understand how to:		
	SB6. ensure safe and secure movement of packages, cargos etc.		
	Problem solving		
	The user/individual on the job needs to know and understand how to:		
	SB7. identify any threats on personal health, safety, security, etc. and take		
	appropriate actions		
	SB8. identify risks at the workplace and address them		
	Analytical thinking		
	The user/individual on the job needs to know understand how to:		
	SB9. analyse past mistakes and address them to avoid mishap in the future		
	Critical thinking		
	The user/individual on the job needs to know and understand how to:		
	SB10. ensure right safety measures and procedures are in place		

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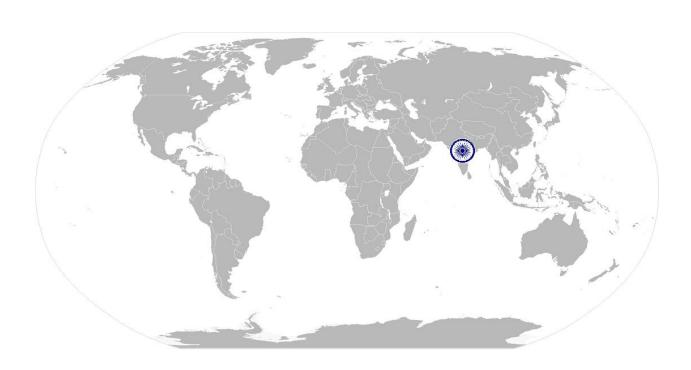
NOS Code	LSC/N9905		
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	30/06/2018
Industry Sub-sector	Generic	Last reviewed on	28/03/2019
Occupation	Generic	Next review date	28/03/2022







National Occupational Standard



Overview

This unit is about handling different types of dry bulk cargo







Handle dry bulk cargo

LSC/N3505	Tranule dry bulk cargo		
Unit Code	LSC/N3505		
Unit Title (Task)	Handle dry bulk cargo		
Description	This unit is about supervision of dry bulk cargo loading/unloading and movement		
Scope	This unit/task covers the following:		
	Loading/unloading of dry bulk cargo		
	Range: Personal Protective Equipment (PPE), Material Handling Equipment (MHE),		
	instructional material, safety guidelines, safety signs, computer, projector etc.		
Performance Criteria(PC) w.r.t. the scope			
Element	Performance Criteria		
Loading/unloading dry bulk cargo	To be competent, the user/ individual must be able to:		
	PC1. obtain details of incoming cargo from port/ shipper into the Container Freight Station (CFS), Inland Container Depot (ICD) as per the cargo plan and allocate resources PC2. check the International Maritime Solid Bulk Cargo (IMSBC) code of the item to be loaded/unloaded is presented in the documentation and the vessel/yard has the appropriate safety systems in place identify and finalise bays for storage of incoming cargo considering the various demarcations and precautions to be taken based on cargo type PC4. discuss, finalise and communicate cargo movement plan with workforce and ensure all equipment are ready for operations at the time of vessel docking/transport arrival PC5. review the pre-operative checklist to ensure all equipment are functional and get a "OK" report from all operators and handlers PC6. review that the unloading area has been prepared for receipt of material and necessary precautions and PPEs have been taken PC7. supervise unloading/loading of dry bulk cargo using Grab Ship Unloader (GSU) crane, conveyor belts etc.		
Knowledge and under	 PC8. ensure minimum spillage and wastage of dry bulk cargo during transfer operations and monitor the same PC9. check for compliance to IMDG, Directorate General (DG) shipping and other material handling guidelines while unloading hazardous/dangerous cargo PC10. ensure the yard space is cleaned post loading/unloading of cargo PC11. oversee movement of cargo from port terminal, CFS via rail and road lines and export via vessels 		

Knowledge and understanding (K)







Handle dry bulk cargo

LBC/113303	Handic dry bulk cargo
A. Organizational	The individual on the job needs to know and understand:
context	KA1. organizational procedures
(Knowledge of the	KA2. documentation and reporting as per organization's mandate
company /	KA3. security procedures to be followed
organization and	KA4. escalation matrix for reporting identified problems
its processes)	KA5. risk and impact of not following defined procedures/work instructions
	KA6. coding system followed to label cargo
	KA7. IT system and ERP system of the organization
B. Technical	The individual on the job needs to know and understand:
knowledge	KB1. basics of operations in a port terminal, ICD and CFS
	KB2. use of various cargo handling equipment
	KB3. use of rope, flags and other manual equipment
	KB4. vessel layout and loading and unloading activities
	KB5. procedures of tank cleaning, cargo movement
	KB6. requirements regarding handling of cargo
	KB7. different type of vessels and cargo and container sizes
	KB8. different type of cranes and MHEs – their capacities, constraints and usage
	KB9. handling of hazardous and non-hazardous cargo
	KB10. marking of material and people movement areas
	KB11. stuffing and de-stuffing norms with respect to different cargo
	KB12. special characteristics and handling requirements of shipments, if any
	KB13. reefer controls for setting temperature and humidity
CL:U- (C)	KB14. ambient temperature and humidity requirement for different products
Skills (S)	
C. Core skills/	Reading skills
generic skills	The user/individual on the job needs to know how to read:
	SA1. written instructions
	SA2. shiping manifest, Bill of lading shipping bills and related documents
	SA3. ERP and computer generated reports
	SA4. cargo stowage plans and vessel plans
	SA5. SOPs and safety regulation manuals
	Writing skills
	The user/individual on the job needs to know how to write:
	SA6. work-orders and instructions
	SA7. checklist of activities, delays, undelivered items, contacts, etc
	SA8. daily reports
	Oral communication (listening and speaking skills)
	The user/individual on the job needs to know how to: SA9. communicate with customers, fireght operators, transporters, shipping
	IL SAY. COMMUNICATE WITH CUSTOMERS, TIREPHT OPERATORS, TRANSPORTERS, SHIPPING







Handle dry bulk cargo

LSC/N3505	Handle dry bulk cargo	
	companies, other supervisors and port authorities	
	SA10. communicate with cargo equipment operators and ground staff over VHF radio	
	SA11. guide cargo handlers for smooth operations	
D. Professional skills	Decision making	
	The user/individual on the job needs to know how to:	
	SB1. decide on required workforce and equipment for performing a particular task	
	SB2. assess the environmental condition and type of cargo to assess if it is safe for	
	operations	
	SB3. resolve a problem quickly internally	
	SB4. prioritise shipments	
	SB5. decide on deployment of alternate resources when required	
	Plan and organize	
	The user/individual on the job needs to know how to:	
	SB6. plan and estimate the co-ordination required for resolving a querry.	
	SB7. maintain punctuality	
	SB8. respond to the client in a timely manner	
	SB9. prioritize and execute tasks based on client requirements	
	SB10. make work plans and resource allocation plans	
	SB11. make checks on execution of work pars	
	SB12. be a team player and achieve joint goals	
	Customer centricity	
	The user/individual on the job needs to know how to:	
	SB13. adhere to the customer timelines	
	SB14. address the urgency regarding shipments and activities	
	Problem solving	
	The user/individual on the job needs to know how to:	
	SB15. make adjustment to working requirements for difficult weathers and	
	hazardous goods	
	SB16. identify trends/common causes for delays, damages, etc.	
	SB17. co-ordinate and handle major issues with different departments	
	SB18. identify bottlenecks and operational problems and suggest remedial action	
	Analytical thinking	
	The user/individual on the job needs to know how to:	
	SB19. assess the resource requirement for a particular task at hand	
	SB20. assess and prepare for backup resources in case of delays	
	SB21. plan for cargo movement so that the resources and stroage space is optimally	
	utilised	
	Critical thinking	
	The user/individual on the job needs to know and understand how to:	
	SB22. resolve issues in a qucik and cost effective manner	







LSC/N3505 Handle dry bulk cargo

SB23.	develop work plans factoring in external factors
SB24.	check that all security measures and safety protocals are followed at all times

NOS Version Control

NOS Code	LSC/N3505		
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	30/06/2018
Industry Sub-sector	Port terminals, CFS and ICDs	Last reviewed on	28/03/2019
Occupation	Port operation and management (cargo handling)	Next review date	28/03/2022



National Occupational Standards

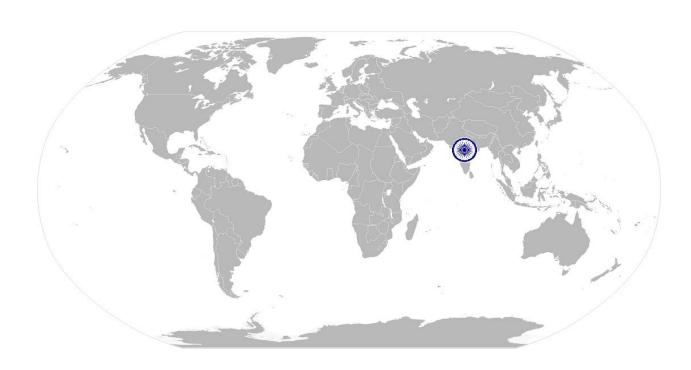


LSC/N3506





National Occupational Standard



Overview

This unit is about handling different types of container cargo



National Occupational Standards



LSC/N3506

Handle container cargo

Unit Code	LSC/N3506		
Unit Title			
(Task)	Handle container cargo		
Description	This unit is about supervision of loading/unloading of containerised cargo		
Scope	This unit/task covers the following:		
	Loading/unloading of container cargo		
	Loading/unloading of reefer cargo		
	Range: Personal Protective Equipment (PPE), Material Handling Equipment (MHE),		
	instructional material, safety guidelines, safety signs, computer, projector etc.		
Performance Criteria(P	PC) w.r.t. the scope		
Element	Performance Criteria		
Loading/unloading of	To be competent, the user/ individual must be able to:		
container cargo	PC1. obtain details of incoming container cargo from port/ shipper into the		
	Container Freight Station (CFS), Inland Container Depot (ICD) as per the cargo		
	plan and allocate resources		
	PC2. identify and finalise bays for storage processing container cargo considering		
	the various demarcations and precautions to be taken based on cargo type		
	PC3. discuss, finalise and communicate container movement plan with workforce		
	and ensure all equipment are ready for operations at the time of vessel		
	docking/transport arrival		
	PC4. review the pre-operative checklist to ensure all equipment are functional and		
	get a "OK" report from all operators and handlers		
	PC5. review that the unloading area has been prepared for receipt of material and		
	necessary precautions and PPEs have been taken		
	PC6. check if the container units contain fumigants, where they are present and		
	take necessary precautions		
	PC7. supervise unloading/loading of container cargo using the appropriate crane		
	PC8. on completion of cargo loading/ unloading signal the cargo handlers to stop		
	operations		
Loading/unloading of	To be competent, the user/ individual must be able to:		
reefer cargo	PC9. prioritise reefer cargo movement and ensure they are loaded/unloaded		
	within the defined timelines for maintaining reefer temperature		
	PC10. take safe and secured go-ahead from the cargo surveyor		
	PC11. ensure container power lines are disconnected before removal and ensure re-		
	connection post loading/unloading		
	PC12. check the correct temperature is being maintained in the container post		
	unloading		
Knowledge and unders			
Miowieuge and unders	realisting (iv)		







Handle container cargo

250/11000	
A. Organizational	The individual on the job needs to know and understand:
context	KA1. organizational procedures
(Knowledge of the	KA2. documentation and reporting as per organization's mandate
company /	KA3. security procedures to be followed
organization and	KA4. escalation matrix for reporting identified problems
its processes)	KA5. risk and impact of not following defined procedures/work instructions
	KA6. coding system followed to label cargo
	KA7. IT system and ERP system of the organization
	, ,
B. Technical	The individual on the job needs to know and understand:
knowledge	KB1. basics of operations in a port terminal, ICD and CFS
	KB2. use of various cargo handling equipment
	KB3. use of rope, flags and other manual equipment
	KB4. vessel layout and loading and unloading activities
	KB5. procedures of tank cleaning, cargo movement
	KB6. requirements regarding handling of cargo
	KB7. different type of vessels and cargo and container sizes
	KB8. different type of cranes and MHEs – their capacities, constraints and usage
	KB9. handling of hazardous and non-hazardous cargo
	KB10. marking of material and people movement areas
	KB11. stuffing and de-stuffing norms with respect to different cargo
	KB12. special characteristics and handling requirements of shipments, if any
	KB13. reefer controls for setting temperature and humidity
	KB14. ambient temperature and humidity requirement for different products
Skills (S)	4
E. Core skills/	Pooding skills
•	Reading skills
generic skills	The user/individual on the job needs to know how to read:
	SA1. written instructions
	SA2. shiping manifest, Bill of lading shipping bills and related documents
	SA3. ERP and computer generated reports
	SA4. cargo stowage plans and vessel plans
	SA5. SOPs and safety regulation manuals
	Writing skills
	The user/individual on the job needs to know how to write:
	SA6. work-orders and instructions
	SA7. checklist of activities, delays, undelivered items, contacts, etc
	SA8. daily reports
	Oral communication (listening and speaking skills)
	The user/individual on the job needs to know how to:
	SA9. communicate with customers, fireght operators, transporters, shipping







Handle container cargo

companies, other supervisors and port authorities SA10. communicate with cargo equipment operators and ground staff over VHF radio SA11. guide cargo handlers for smooth operations F. Professional skills Decision making The user/individual on the job needs to know how to: SB1. decide on required workforce and equipment for performing a particular task SB2. assess the environmental condition and type of cargo to assess if it is safe for operations SB3. resolve a problem quickly internally
F. Professional skills Decision making The user/individual on the job needs to know how to: SB1. decide on required workforce and equipment for performing a particular task SB2. assess the environmental condition and type of cargo to assess if it is safe for operations
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operations
SB3. resolve a problem quickly internally
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SB4. prioritise shipments
SB5. decide on deployment of alternate resources when required
Plan and organize
The user/individual on the job needs to know how to:
SB6. plan and estimate the co-ordination required for resolving a querry.
SB7. maintain punctuality
SB8. respond to the client in a timely manner
SB9. prioritize and execute tasks based on client requirements
SB10. make work plans and resource allocation plans
SB11. make checks on execution of work parks
SB12. be a team player and achieve joint goals
Customer centricity
The user/individual on the job needs to know how to:
SB13. adhere to the customer timelines
SB14. address the urgency regarding shipments and activities
Problem solving
The user/individual on the job needs to know how to:
SB15. make adjustment to working requirements for difficult weathers and
hazardous goods
SB16. identify trends/common causes for delays, damages, etc.
SB17. co-ordinate and handle major issues with different departments
SB18. identify bottlenecks and operational problems and suggest remedial action
Analytical thinking
The user/individual on the job needs to know how to:
SB19. assess the resource requirement for a particular task at hand
SB20. assess and prepare for backup resources in case of delays
SB21. plan for cargo movement so that the resources and stroage space is optimally
utilised
Critical thinking
The user/individual on the job needs to know and understand how to:
SB22. resolve issues in a qucik and cost effective manner







LSC/N3506 Handle container cargo

SB23.	develop work plans factoring in external factors
SB24.	check that all security measures and safety protocals are followed at all times

NOS Version Control

NOS Code		LSC/N3506		
Credits(NSQF)	TBD	Version number	1.0	
Industry	Logistics	Drafted on	30/06/2018	
Industry Sub-sector	Port terminals, CFS and ICDs	Last reviewed on	28/03/2019	
Occupation	Port operation and management (cargo handling)	Next review date	28/03/2022	

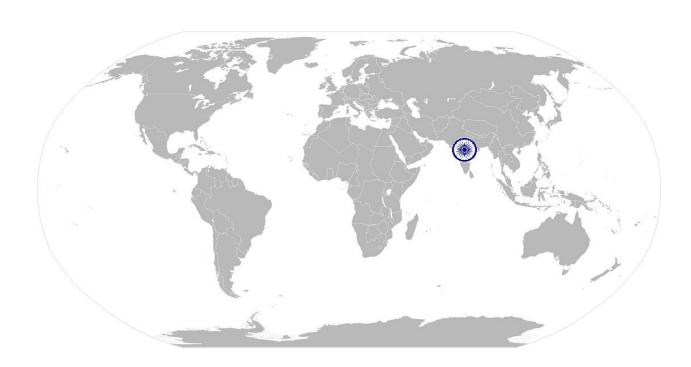








National Occupational Standard



Overview

This unit is about generating new business and maintaining relations with all stakeholders







LSC/N9701 Business development ar	d stakeholder relations
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LSC/N9/01	Business development and stakeholder relations		
Unit Code	LSC/N9701		
Unit Title (Task)	Business development and stakeholder relations		
Description	This OS unit is about generating new business and maintaining relation with all stakeholders		
Scope	This unit/task covers the following:		
	Generate new business prospects Maintain customer relations		
	Coordinate with government officials, vendors and contractors		
	Range: Instructional material, safety guidelines, safety signs, computer, projector etc.		
Performance Criteria(P	PC) w.r.t. the scope		
Element	Performance Criteria		
Generate new business prospects	To be competent, the user/individual on the job must be able to: PC1. obtain a list of existing clients and new prospects from the company's sales database. PC2. prepare sales targets and relationship strategies PC3. prioritize the clients for contacting, based on the previous relationship building calls made to each of them PC4. call clients and prospects to seek meeting PC5. meet client to offer new services and take feedback for current services PC6. identify client's business need and offer customized and bundled solutions PC7. negotiate on costs, close the deal and collect organizational and payment details of the client PC8. take client's feedback before leaving PC9. update information into (Enterprise Resource Planning) ERP, inform the relevant departments on sale closure		
Maintain customer relations	To be competent, the user/ individual must be able to: PC10. regularly interact with the client over phone, emails or personal visits PC11. address the query raised by the customers effectively and timely PC12. take appropriate actions on escalations raised by customers PC13. handle customer grievances PC14. quickly respond to the clients for their e-mails, voice-messages, calls, etc. PC15. provide regular information to clients regarding new offerings, discounts, customised solutions, etc.		
Co-ordinate with government officials, vendors and	To be competent, the user/ individual must be able to: PC16. liaise with customs, other Govt. departments, Participative Government Agencies (PGAs) etc. and build professional relations with them		
contractors	PC17. analyse and manage claim requests PC18. co-ordinate with marketing agencies for publicity of services of the company		







LSC/N9701	Business development and stakeholder relations
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Dustiness development and stakeholder relations			
	PC19. negotiate with carriers, warehouse and transport operators, custom brokers, insurance company representatives, vendors, etc. for services, preferential rates, service level agreements (SLA), payment period, etc. PC20. co-ordinate with labour contractor and local vendors for sufficient workforce, carrier vehicle availability as per work demand		
Knowledge and underst	tanding (K)		
A. Organizational context (Knowledge of the company / organization and its proses)	 The individual on the job needs to know and understand: KA1. vision, mission and values of the company KA2. company's reporting structure to support and expedite project acivities KA3. company's policy and work instructions on quality standards as well as documentation policy KA4. importance of the individual's role in the workflow 		
	 KA5. company's policy on business ethics and code of conduct KA6. business and performance of the company KA7. knowledge repository and various projects done by the company KA8. occupational health and safety standards, handling of special and dangerous goods, etc. KA9. procedures for dealing with loss or damage to goods KA10. value of items handled and implications of damage/loss of the same KA11. risk and impact of not following defined work, safety and security procedures KA12. company policy defined Turn Around Time (TAT) and output metrics for daily operations KA13. Just In Time (JIT) mode of inventory management KA14. coding system followed to label items 		
B. Technical knowledge	 KA15. the IT system and ERP system of the organization The user/individual on the job needs to know and understand: KB1. process flow of service operation, value chain and basic supply chain value map within the sub sector KB2. state/country taxes and routing KB3. local and global geographical knowledge KB4. use of enterprise resource planning software (ERP) KB5. use of tools for documentation: MS excel and MS Word, etc. KB6. basics of statistical and quantitative analysis tools KB7. use of spreadsheets to tabulate and analyze the data KB8. structure and implications of fees and charges involved in transportation, warehousing, etc. KB9. transit rules and regulations KB10. significance of team coordination to achieve revenue and productivity targets of the organisation KB11. customer relationship management KB12. about contract management and Service Level Agreement (SLA) 		







Business development and stakeholder relations

	KB13. factors for evaluation of performance of vendors			
Skills (S)				
A. Core skills/ generic	Reading skills			
skills	The user/ individual on the job needs to know how to read:			
	SA1. company quality policy, work instructions and customer requirement			
	SA2. transit rules and trade policies			
	SA3. regulatory requirement associated with custom clearance			
	SA4. e-mails, invoices, letters, notes, memos, agreement reports, etc.			
	Writing skills			
	The user/ individual on the job needs to know how to:			
	SA5. write e-mails and letters to government officials, customers, vendors, etc.			
	SA6. note information about vendors on factors like quality of service, on-time			
	order completion, cooperation etc			
	Oral communication (listening and speaking skills)			
	The user/individual on the job needs to know how to:			
	SA7. listen and understand the requirements of the client			
	SA8. communicate with clients, government officials and other external			
	stakeholders by using various communication channels			
	SA9. exchange information with other managers, supervisory and operational staff			
	at all levels			
	SA10. carefully listen to vendor concerns and issues			
B. Professional skills	Decision making			
	The user/ individual on the job needs to know how to:			
	SB1. decide corrective measures to improve customer ratings			
	SB2. decide actions to be taken on escalations raised by the customer			
	SB3. decide appropriate action for poor performance and lack of cooperation by			
	vendor/ 3PL			
	SB4. identify and prioritise on select clients and prospects for generating business			
	Plan and organize			
	The user/ individual on the job needs to know how to:			
	SB5. liaison with customers, government officials, vendors and staff to ensure that			
	smooth functioning of service centre/office			
	SB6. plan and organise review meetings with vendors, contractors			
	SB7. organise projects/ training plans for performance improvement			
	Customer centricity			
	The user/ individual on the job needs to know how to:			
	SB8. take prompt action on queries raised by the customer			
	SB9. address customer requirement and offer customised or bundled solutions			
	SB10. suggest ideas and solutions to increase customer loyalty and satisfaction			
	Problem solving			
<u> </u>				







LSC/N9701 Business development and stakeholder relations

200/1/5/02		siness development una stantenotaer retations		
	The use	er/ individual on the job needs to know how to:		
	SB11.	resolve the queries raised by customers as well as goverment officals		
	SB12.	address the queries raised by vendors, contractors and other external		
		stakeholders		
	Analyti	Analytical thinking		
	The use	The user/ individual on the job needs to know and how to:		
	SB13.	identify the factors that helped improve customer satisfaction		
	SB14.	identify commonly preferred bundles and customisations		
	SB15.	SB15. analyse reasons for customer dis-satisfaction		
	SB16. identify areas that are crucial for performance improvement			
	Critical	Critical thinking		
	The use	The user/ individual on the job needs to know how to:		
	SB17. improve work processes by adopting best practices			
	SB18.	act upon constructively on any problems as identified		
	SB19.	handle personality clashes effectively		

NOS Version Control



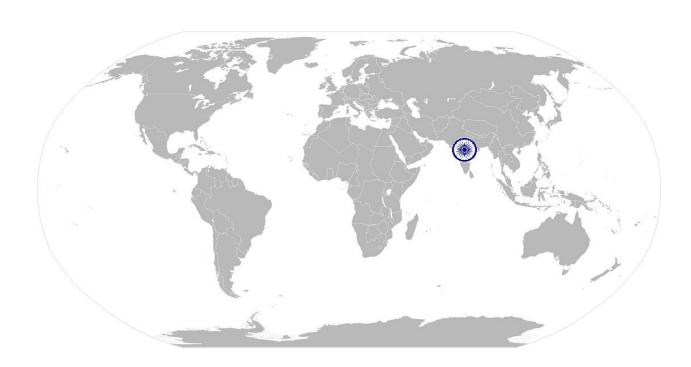
NOS Code		SC/N9702	
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	30/06/2018
Industry Sub-sector	Generic	Last reviewed on	28/03/2019
Occupation	Sales and marketing/ business development	Next review date	28/03/2022







National Occupational Standard



Overview

This unit is about tracking containers using smart supply chain and planning for vessel berthing







LSC/N3508 Track container globally and plan for vessel docking

Unit Code	LSC/N3508			
Unit Title (Task)	Track container globally and plan for vessel docking			
Description	This OS unit is about about global container tracking and developing vessel berthing plans			
Scope	This unit/task covers the following:			
	 Track position of consignments and containers globally Prepare vessel berthing plans Range: Enterprise Resource Planning (ERP), Standard Operating Procedures (SOP), worksheets, computer, projector, stationery etc. 			
Performance Criteria	PC) w.r.t. the Scope			
Element	Performance Criteria			
Track position of consignments and containers globally	 To be competent, the user/ individual must be able to: PC1. track position of container using smart supply chain and ERP by feeding in the container index number PC2. extract information regarding present location, shipper details, cargo content, estimated date of arrival at destination etc. PC3. extract information related to health of the container – date of last servicing, ageing since then, number of cycles completed, accidents, damages, previous damage reports if any, etc. PC4. analyse the information to identify ailing containers that need to be put into servicing and repair PC5. prepare detailed report regarding containers and inform the manager on position and status of various containers 			
Prepare vessel	To be competent, the user/ individual must be able to:			
berthing plans	 PC6. obtain information regarding different vessels coming to the port PC7. take stock of available resources – both equipment and workforce as well as available berths PC8. obtain information regarding the discharge and loading of cargo to be done for each vessel PC9. estimate the time required for the vessel loading/ unloading operations PC10. prepare schedule for vessel docking factoring in berth availability, prioirty cargo, perishable cargo, resource availability, etc. PC11. communicate the vessel docking plan with details of cargo and berth to the manager PC12. obtain a sign off from the manager and communicate to the shipper, port authority, vessel and cargo handling supervisor PC13. communicate regarding amendments, delays, if any as and when required 			







LSC/N3508 Track container globally and plan for vessel docking

Knowledge and unders	standing (K)
A. Organizational context (Knowledge of the company / organization and its processes)	The individual on the job needs to know and understand: KA1. organizational procedures KA2. documentation and reporting as per organization's mandate KA3. security procedures to be followed KA4. escalation matrix for reporting identified problems KA5. risk and impact of not following defined procedures/work instructions KA6. coding system followed to label cargo KA7. IT system and ERP system of the organization
B. Technical knowledge	The individual on the job needs to know and understand: KB1. basics of operations in a port terminal, Container Freight Station (CFS) and Inland Container Depot (ICD) KB2. usage of ERP and IT tools related to container cargo tracking KB3. use of various cargo handling equipment KB4. vessel and yard layout and loading and unloading activities KB5. procedures of cargo movement KB6. requirements regarding handling of cargo KB7. different type of vessels and cargo and container sizes KB8. different type of cranes and Material Handling Equipment (MHEs) – their capacities, constraints and usage KB9. handling of hazardous and non-hazardous cargo KB10. marking of material and people movement areas KB11. stuffing and de-stuffing norms with respect to different cargo KB12. special characteristics and handling requirements of shipments, if any
Skills (S) A. Core skills/ generic skills	Reading skills The user/individual on the job needs to know how to read: SA1. written instructions SA2. shiping manifest, Bill of lading shipping bills and related documents SA3. ERP and computer generated reports SA4. cargo stowage plans and vessel plans SA5. SOPs and safety regulation manuals Writing skills The user/individual on the job needs to know how to write: SA6. work-orders and instructions SA7. checklist of activities, delays, undelivered items, contacts, etc SA8. daily reports Oral communication (listening and speaking skills) The user/individual on the job needs to know how to:







LSC/N3508	Track container globally and plan for vessel docking			
	SA9. communicate with customers, fireght operators, transporters, shipping			
	companies, other supervisors and port authorities			
	SA10. communicate with cargo equipment operators and ground staff over VHF radio			
	SA11. guide cargo handlers for smooth operations			
B. Professional skills	Decision making			
	The user/individual on the job needs to know how to:			
	SB1. decide on required workforce and equipment for performing a particular task			
	SB2. assess the environmental condition and type of cargo to assess if it is safe for			
	operations			
	SB3. resolve a problem quickly internally			
	SB4. prioritise shipments			
	SB5. decide on deployment of alternate resources when required			
	Plan and organize			
	The user/individual on the job needs to know how to:			
	SB6. plan and estimate the co-ordination required for resolving a querry.			
	SB7. maintain punctuality			
	SB8. respond to the client in a timely manner			
	SB9. prioritize and execute tasks based on client requirements			
	SB10. make work plans and resource allocation plans			
	SB11. make checks on execution of work plans			
	SB12. be a team player and achieve joint goals			
	Customer centricity			
	The user/individual on the job needs to know how to:			
	SB13. adhere to the customer timelines			
	SB14. address the urgency regarding shipments and activities			
	Problem solving			
	The user/individual on the job needs to know how to:			
	SB15. make adjustment to working requirements for difficult weathers and			
	hazardous goods			
	SB16. identify trends/common causes for delays, damages, etc.			
	SB17. co-ordinate and handle major issues with different departments			
	SB18. identify bottlenecks and operational problems and suggest remedial action			
	Analytical thinking			
	The user/individual on the job needs to know how to:			
	SB19. assess the resource requirement for a particular task at hand			
	SB20. assess and prepare for backup resources in case of delays			
	SB21. plan for cargo movement so that the resources and stroage space is optimally			
	utilised			
	Critical thinking			







LSC/N3508	Track container globally and plan for vessel docking			
	The user/individual on the job needs to know and understand how to:			
	SB22. resolve issues in a qucik and cost effective manner			
	SB23. develop work plans factoring in external factors			
	SB24. check that all security measures and safety protocals are followed at all times			

NOS Version Control

NOS Code	LSC/N3508			
Credits(NSQF)	TBD	Version number	1.0	
Industry	Logistics	Drafted on	30/06/2018	
Industry Sub-sector	Port terminals, CFS and ICDs	Last reviewed on	28/03/2019	
Occupation	Port Operation (cargo handling, vessel planning)	Next review date	28/03/2022	



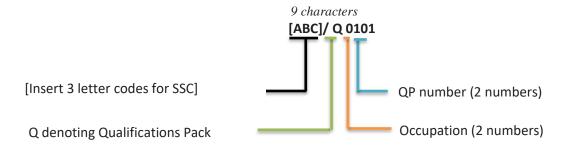




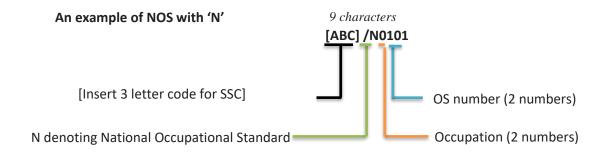
Annexure

Nomenclature for QP and NOS

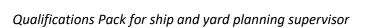
Qualifications Pack



Occupational Standard



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The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Warehousing	1 to 9
Land Transportation	10 to 14
EXIM/ Freight	
Forwarding/ Customs	21 to 23
Clearance	
Courier/Express	15 to 20
E-Commerce	24 to 30
Supply Chain	31 to 34
Port Terminals, ICD and	35 to 41
CFS	35 to 41
Inland Waterways	42 to 46
Liquid Logistics	47 to 49
Air Cargo Operations	61 to 62
Rail Logistics	50 to 55
Cold Chain Logistics	86 to 94
Generic Occupations	95 to 99

Sequence	Description	Example
Three letters	Industry name	LSC
Slash	/	/
Next letter	Whether Q P or N OS	Q/N
Next two numbers	two numbers Occupation code	
Next two numbers	OS number	01





CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Ship and yard planning supervisor

Qualification Pack LSC/Q3501

Sector Skill Council Logistics

Guidelines for Assessment

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each 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 PC
- 2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC
- 3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
- 4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion
- 5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS
- 6. In case of unsuccessful completion the trainee make seek re-assessment on the Qualification Pack

Compulsory NOS					
Total Marks: 600			Marks Allocation		
Assessment Outcomes	Assessment Criteria for Outcomes	Total Marks	Out of	Theory	Skills Practical
LSC/N3501 Allocate resources and streamline operations at yard	PC1. obtain details of vessel docking plans, cargo and container movement plans, etc.		6	2	4
	PC2. develop daily work plan factoring in priority cases, time bound requirements, special handling requirements, etc.	100	6	2	4
	PC3. get the work plan approved by the yard manager or CFS/ICD manager and allocate tasks to subordinates		6	2	4
	PC4. budget and allocate the requisite MHE for tasks at hand		6	2	4
	PC5. inspect yard for markings/demarcation, storage and cleanliness as per safety norms		4	1	3
	PC6. monitor cargo loading, unloading and movement operations		4	1	3
	PC7. engage resources in alternate operation when there is a delay of planned operations		6	2	4





	PC8. allocate additional and ad-hoc manpower and equipment during exigency		6	2	4
	PC9. escalate issues regarding MHE				
	operations, transporter delays, vessel				
	delays, accidents, damages, etc. to		4	1	3
	manager				
	PC10. provide corrective and preventive				
	action plans based on accident and		6	2	4
	damage reports				
	PC11. liaise with port officials, customs				
	officials and external stakeholders		6	2	4
	PC12. conduct periodic inspection of the				
	yard for cleanliness, usage of PPEs and		6	2	4
	adherence to SOP and regulations				
	PC13. ensure cargo bays are clearly				
	marked and segregated, containers and		4	1	3
	cargo are stored as per prescribed norms				
	PC14. check for parking and positioning				
	of equipment as per SOP		4	1	3
	PC15. ensure all necessary precautions				
	for storage of hazardous cargo are			_	4
	complied with and emergency services		6	2	4
	are available				
	PC16. submit inspection report		4	1	3
	highlighting any deviation from SOP		4	1	0
	PC17. review escalated issues and				
	identify root cause for providing		4	1	3
	corrective action				
	PC18. provide technical guidance to the		4	1	3
	team for execution		4	1	5
	PC19. escalate the issues to manager				
	when external or additional help is		4	1	3
	required				
	PC20. coordinate with other				
	departments, transporters, freight				
	operators, port authorities, shipping		4	1	3
	companies and others to resolve				
	escalations if required				
			100	30	70
	PC1. check yard space utilization data				
	in terms of open and closed yards, dry		6	2	4
LSC/N3502 Yard	bulk cargo vs container, and assess			_	7
planning and	available storage capacity	100			
cargo handling	PC2. review ageing of cargo and				
	containers in yard, identify reasons for		6	2	4
1	delay, and enable timely movement				





1
PC3. identify and finalise bays for
storage of incoming cargo considering the
various demarcations and precautions to
be taken particularly for hazardous and
dry bulk cargo
PC4. plan for yard traffic and material
movement routes considering terminal
layout, container and cargo type, and
available equipment
PC5. prepare goods storage plans
based on vessel berthing plan and get it
approved by the terminal manager
PC6. escalate issues to terminal
manager if required
PC7. obtain vessel information related
to docking schedule, berth, bays and
containers to be unloaded/ loaded
PC8. obtain information regarding
movement of containers/ cargo from port
terminals to CFS/ ICD or client
PC9. communicate and finalise cargo
movement plan with lifting supervisors,
vessel supervisors, cargo equipment
handlers, and manual cargo handlers
PC10. ensure that all equipment and
workforce are ready for operations at the
time of vessel docking / transport arrival
PC11. ensure all necessary precautions
are taken and adequate PPEs are used
PC12. coordinate with vessel docking
supervisor/ transport supervisor and
vessel officer and get a go-ahead for
cargo/ container loading/ unloading
PC13. coordinate with cargo surveyor
for 'safe and secured' before loading/
unloading
PC14. address the queries of shipping
lines and agents regarding cargo
operations and storage
PC15. check that all cargo handling
activities executed are as per schedule and SOP
PC16. document damages to cargo/
container during loading/ unloading
PC17. provide guidance and
resolve/escalate any issues faced in
loading/ unloading

6	2	4
5	2	3
4	1	3
3	1	2
4	1	3
4	1	3
3	1	2
4	1	3
4	1	3
3	1	2
4	1	3
4	1	3
4	1	3
4	1	3
6	2	4





	PC18. check that all cargo is stored at the planned/allocated storage location in the yard		4	1	3
	PC19. obtain 'safe and secured' go- ahead from the cargo surveyor upon completion of loading/ unloading activities		4	1	3
	PC20. collect counter signature from transporter for actuals received or dispatched		3	1	2
	PC21. check consignments received against order and delivery documentation to confirm that the quality, quantity and condition of the cargo is acceptable, identifying and referring any discrepancies		4	1	3
	PC22. maintain records relating to the receipt / storage / despatch of cargo, ensuring that these are up to date and complete		3	1	2
	PC23. check if receipt and delivery are documented in ERP		3	1	2
	PC24. prepare daily report highlighting the cargo storage and movement, plan vs actual performance, cargo ageing, details of accidents and damages if any		5	2	3
			100	30	70
	PC1. read and interpret different cargo labels associated with different class and types of hazardous goods		6	2	4
	PC2. check for permissible limits and available documentation for hazardous goods as per approvals and acceptable specifications		6	2	4
LSC/N3504	PC3. check IMDG code to identify the precautions and permissible limits for handling		6	2	4
Handle hazardous goods	PC4. ensure that the port and yard terminal if the port is equipped to handle the identified class of hazardous goods	100	6	2	4
	PC5. check if all the necessary precautions, PPEs and emergency response teams are in position prior to loading/unloading of cargo		4	1	3
	PC6. check that the allocated storage bay in the yard is adequately separated and precautions with respect to heat, light, temperature control, etc. are taken		4	1	3





		•		•	
	PC7. provide instructions for				
	segregation of hazard goods as per		4	1	3
	classification				
	PC8. use separate teams for handling		6	2	4
	different classes of hazardous goods		0	2	4
	PC9. check if appropriate PPEs, MHEs				
	and other equipment are being used to		4	1	3
	prevent contamination or exposure				
	PC10. check if all PPEs and equipment		_	_	_
	are functional and contamination proof		6	2	4
	PC11. ensure all precautions are taken				
	as per SOP while handling hazardous		6	2	4
	cargo			_	
	PC12. confirm emergency response				
	action with the emergency team and		6	2	4
					"
	cargo handling team prior to operations	-			
	PC13. inspect containers for damages,		6	2	4
	leakage, exposure and labels	-			
	PC14. check if cargo movement via		4	1	3
	conveyors, dump trucks is spillage free	_			
	PC15. ensure clear and obstacle free				
	movement of cargo from vessel to yard		6	2	4
	and yard to transport				
	PC16. ensure that all required				
	precautions and segregations for cargo		4	1	3
	storage are undertaken				
	PC17. report closure of exercise				
	highlighting handling losses, storage		4	1	3
	location and coordinates, etc.				
	PC18. periodically inspect yard space to				
	check if adequate segregation and				
	precautions are taken for storage of		4	1	3
	hazardous goods				
	PC19. report to manager in case of any	1			
	leakage, damages, exceptions in handling		4	1	3
	precautions and segregation			_	
	PC20. document and file inspection	1			
	reports		4	1	3
	Topolis		100	20	70
			100	30	70
	PC1. coordinate with shipping liners,				
LSC/N0321	vessel operators, freight transporters,				
Documentation	importers and exporters as well as the		12	4	8
related to port	port authorities to obtain requisite cargo	100			
clearance and	documents				
cargo	PC2. review documentation of		12		0
	transport vehicles and their certificates		12	4	8
		_			61





	for fitness for operation, presence of requisite license, etc.				
	PC3. review cargo documents like bill of lading, shipping bills, PGA (Participative Government Agencies) clearances, etc. for compliance to regulations and standards		12	4	8
	PC4. prepare and review storage plans and yard layout to check for compliances particularly regarding hazardous and reefer cargo		11	3	8
	PC5. review fitness certificates and related documents regarding operations of various MHEs, cranes and terminal equipment		11	3	8
	PC6. review and approve gate entry and exit passes for transporters, vehicles		11	3	8
	PC7. prepare and review compliance reports regarding yard and terminal layout, fitness of equipment and personnel, various incidents, cargo handling, etc		11	3	8
	PC8. respond and resolve queries raised by port and custom authorities, custom brokers, shipping liners, clients, transporters regarding status of different shipments		10	3	7
	PC9. coordinate between the vessel, shipper/ importer, agents and port authorities to ensure that all compliances and requirements are met		10	3	7
			100	30	70
	PC1. refrain from indulging in corrupt practices		5	2	3
	PC2. avoid using company's funds, property or resources for undertaking personal activities		5	2	3
LSC/N9904 Maintain and	PC3. protect customer's information and ensure it is not misused		5	2	3
monitor integrity and ethics in operations	PC4. protect data and information related to business or commercial decisions	100	5	2	3
	PC5. avoid acceptance of cash or kind from vendors for support or contract negotiations		5	2	3
	PC6. demonstrate and practice ethics in day-to-day processes and dealings with		5	2	3



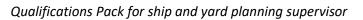


	customers and colleagues				
	PC7. avoid nepotism		5	2	3
	PC8. consult supervisor or senior				
	management when in situations that may		6	2	4
	require differentiating between ethical		Ü	_	-
	and unethical				
	PC9. report promptly all violations of		5	2	3
	code of ethics				
	PC10. dress up and conduct in a		5	2	3
	professional manner PC11. communicate with clients and				
	stakeholders in a soft and polite manner		5	2	3
	PC12. follow etiquettes in accordance to				
	the place		5	2	3
	PC13. check for regulatory				
	documentation and compliances for the		6	2	4
	shop floor as per information from the		6	2	4
	supervisor				
	PC14. perform activities considering the		5	2	3
	regulatory requirements				
	PC15. use PPEs in accordance to		6	3	3
	regulatory requirements				
	PC16. identify the different types of dangerous goods and handling		6	3	3
	methodologies		U	3	3
	PC17. follow the SOP for handling of				
	different types of dangerous goods		6	2	4
	PC18. consult supervisor or senior				
	management when in situations that may		-	,	2
	require differentiating between ethical		5	2	3
	and unethical				
	PC19. promptly report all regulatory		5	2	3
	violations				
			100	40	60
	PC1. make note of all safety processes				
	in different location (cargo loading area,		5	2	3
	ramp operation area, etc.) with reference to area of operation				
LSC/N9905	PC2. wear all personal protective				
Follow and monitor health, safety and security procedure	equipment (PPE) such as goggles, ear		_	_	_
	plugs, helmet, mask, shoes, etc. as	100	5	2	3
	applicable in the cargo movement area				
	PC3. follow standard driving practice to		5	2	3
	ensure safety of life and material		J		3
	PC4. follow organizational protocol to				
	deploy action in case of signs of any		5	2	3
	emergency situation or accident or breach				63





of safety				
PC5. undertake periodical preventive health check ups	5	;	2	3
PC6. follow necessary standard operating procedures (SOP) and precautions while handling dangerous and hazardous goods	5	;	2	3
PC7. follow security procedures like green gate in port, customs area, factory security, etc.	5	;	2	3
PC8. comply with data safety regulations of the organisation	3	3	1	2
PC9. follow standard safety procedures while handling hazardous / fragile cargo and walk only on the designated pathway	4	ļ	2	2
PC10. recognise unsafe conditions and safety practices at the workplace and report it to concerned authority	3	3	1	2
PC11. inspect the activity area and equipment for appropriate and safe condition	5	j	2	3
PC12. check if stacking is done at defined height and is not on the walk way	5	,	2	3
PC13. check if walk way is free from grease/ oil	5	5	2	3
PC14. check if emergency fire alarms, water sprinklers and smoke detectors are installed at all places	5	5	2	3
PC15. participate in fire drills	5	,	2	3
PC16. check if standard material handling procedure are being followed	5	5	2	3
PC17. check if hold ladders, platforms and hand rails to be in a sound and safe condition	5	,	2	3
PC18. check if all the safety and security related tags, labels and signage are placed in the cargo	5	,	2	3
PC19. check if loading instrument is certified and operational	5	5	2	3
PC20. implement 5S at workplace	5	5	2	3
PC21. check if cargo has passed security checks and report in case of any violation	5	5	2	3
	10	0	40	60







Electives					
	Elective 1 - Handle Dry Bull	k Cargo			
Total marks 100				Marks a	llocation
Assessment outcome	Assessment criteria	Total marks	Out of	Theory	Practical
	PC1. obtain details of incoming cargo from port/ shipper into the CFS, ICD as per the cargo plan and allocate resources		10	3	7
	PC2. check the IMSBC (International Maritime Solid Bulk Cargo) code of the item to be loaded/unloaded is presented in the documentation and the vessel/yard has the appropriate safety systems in place		10	3	7
	PC3. identify and finalise bays for storage of incoming cargo considering the various demarcations and precautions to be taken based on cargo type		10	3	7
	PC4. discuss, finalise and communicate cargo movement plan with workforce and ensure all equipment are ready for operations at the time of vessel docking/transport arrival	100	10	3	7
LSC/N3505 Handle dry	PC5. review the pre-operative checklist to ensure all equipment are functional and get a "OK" report from all operators and handlers		10	3	7
bulk cargo	PC6. review that the unloading area has been prepared for receipt of material and necessary precautions and PPEs have been taken		10	3	7
	PC7. supervise unloading/loading of dry bulk cargo using GSU crane, conveyor belts etc.		9	3	6
	PC8. ensure minimum spillage and wastage of dry bulk cargo during transfer operations and monitor the same		8	2	6
	PC9. check for compliance to IMDG, DG shipping and other material handling guidelines while unloading hazardous/dangerous cargo		9	3	6
	PC10. ensure the yard space is cleaned post loading/unloading of cargo		7	2	5
	PC11. oversee movement of cargo from port terminal, CFS via rail and road lines and export via vessels		7	2	5
			100	30	70





Elective 2 - Handle Containerised Cargo					
Total marks 100				Marks a	llocation
Assessment outcome	Assessment criteria	Total marks	Out of	Theory	Practical
	PC1. obtain details of incoming container cargo from port/ shipper into the CFS, ICD as per the cargo plan and allocate resources		10	3	7
	PC2. identify and finalise bays for storage of incoming container cargo considering the various demarcations and precautions to be taken based on cargo type		10	3	7
	PC3. discuss, finalise and communicate container movement plan with workforce and ensure all equipment are ready for operations at the time of vessel docking/transport arrival		10	3	7
	PC4. review the pre-operative checklist to ensure all equipment are functional and get a "OK" report from all operators and handlers	100	10	3	7
LSC/N3506 Handle	PC5. review that the unloading area has been prepared for receipt of material and necessary precautions and PPEs have been taken		9	3	6
containerised cargo	PC6. check if the container units contain fumigants, where they are present and take necessary precautions		7	2	5
	PC7. supervise unloading/loading of container cargo using the appropriate crane		9	3	6
	PC8. on completion of cargo loading/ unloading signal the cargo handlers to stop operations		7	2	5
	PC9. prioritise reefer cargo movement and ensure they are loaded/unloaded within the defined timelines for maintaining reefer temperature		7	2	5
	PC10. take safe and secured go-ahead from the cargo surveyor		7	2	5
	PC11. ensure container power lines are disconnected before removal and ensure re-connection post loading/unloading		7	2	5
	PC12. check the correct temperature is being maintained in the container post unloading		7	2	5





100 30 70

	Options				
	Option 1 - Business Development and S	takeholder R	Relations		
Total marks 10	00			Marks a	llocation
Assessment outcome	Assessment criteria	Total marks	Out of	Theory	Practical
	PC1. obtain a list of existing clients and new prospects from the company's sales database.		6	2	4
	PC2. prepare sales targets and relationship strategies		6	2	4
	PC3. prioritize the clients for contacting, based on the previous relationship building calls made to each of them		6	2	4
	PC4. call clients and prospects to seek meeting		6	2	4
	PC5. meet client to offer new services and take feedback for current services	100	4	1	3
	PC6. identify client's business need and offer customized and bundled solutions		4	1	3
LSC/N9702	PC7. negotiate on costs, close the deal and collect organizational and payment details of the client		6	2	4
Business development	PC8. take client's feedback before leaving		6	2	4
and stakeholder	PC9. update information into ERP, inform the relevant departments on sale closure		4	1	3
relations	PC10. regularly interact with the client over phone, emails or personal visits		6	2	4
	PC11. address the query raised by the customers effectively and timely		6	2	4
	PC12. take appropriate actions on escalations raised by customers		6	2	4
	PC13. handle customer grievances		4	1	3
	PC14. quickly respond to the clients for their e-mails, voice-messages, calls, etc.		4	1	3
	PC15. provide regular information to clients regarding new offerings, discounts, customised solutions, etc.		6	2	4
	PC16. liaise with customs, other Govt. departments, PGAs, etc. and build professional relations with them		4	1	3
	PC17. analyse and manage claim requests		4	1	3

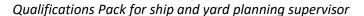




	Quantifications rack for ship and yard plants	ing supervis	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	PC18. co-ordinate with marketing agencies for publicity of services of the company		4	1	3
	PC19. negotiate with carriers, warehouse and transport operators, custom brokers, insurance company representatives, vendors, etc. for services, preferential rates, service level agreements (SLA), payment period, etc.		4	1	3
	PC20. co-ordinate with labour contractor and local vendors for sufficient workforce, carrier vehicle availability as per work demand		4	1	3
			100	30	70
	Option 2 - Container Tracking and	Vessel Plann	ing		
Total marks 10	00			Marks a	llocation
Assessment outcome	Assessment criteria	Total marks	Out of	Theory	Practical
	PC1. track position of container using smart supply chain and ERP by feeding in the container index number	100	9	3	6
	PC2. extract information regarding present location, shipper details, cargo content, estimated date of arrival at destination, etc.		8	2	6
	PC3. extract information related to health of the container – date of last servicing, ageing since then, number of cycles completed, accidents, damages, previous damage reports if any, etc.		8	2	6
Track containers	PC4. analyse the information to identify ailing containers that need to be put into servicing and repair		9	3	6
globally and plan for vessel docking	PC5. prepare detailed report regarding containers and inform the manager on position and status of various containers		9	3	6
	PC6. obtain information regarding different vessels coming to the port		8	2	6
	PC7. take stock of available resources – both equipment and workforce as well as available berths		9	3	6
	PC8. obtain information regarding the discharge and loading of cargo to be done for each vessel		7	2	5
	PC9. estimate the time required for the vessel loading/ unloading operations		7	2	5
	PC10. prepare schedule for vessel docking		7	2	5

factoring in berth availability, priority cargo,







perishable cargo, resource availability, etc.			
PC11. communicate the vessel docking plan with details of cargo and berth to the manager	7	2	5
PC12. obtain a sign off from the manager and communicate to the shipper, port authority, vessel and cargo handling supervisor	6	2	4
PC13. communicate regarding amendments, delays, if any as and when required	6	2	4
	100	30	70

Annexure: Trainer qualification and equipment requirement

Trainer Qualification –

- Diploma/XII pass with 7 years of experience with minimum 3 years as supervisor (or)
- Graduate with 5 years of experience with minimum 3 years as supervisor
- Experience in cargo operations at ports or related fields having detailed knowledge of port operations, cargo handling, crane operations, cargo documentation, ERP related reporting and data management activities and supervisory skills
- The person should have communication skills involving reading, writing and oral in English and vernacular language

Training equipment - Teaching board, Computer, Projector, Video Player or TV, Ms Office, MIS, Inventory models, stationery, PPEs, MHEs like GSU, RMQC, RTG, Reach stacker, pallet truck, barcode scanner, packing devices, vessel/container tracking IT software, and packing material