



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
- Sare 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: Refrigeration Equipment Maintenance Specialist

SECTOR: LOGISTICS

SUB-SECTOR: Cold Chain Logistics

OCCUPATION: Maintenance

REFERENCE ID: LSC/Q9101

ALIGNED TO: NCO-2015/NIL

The Refrigeration Equipment Maintenance Specialist is responsible for planning and monitoring maintenance of refrigeration equipment, handling its service and repair and training plant engineers to perform maintenance tasks.

Brief Job Description: The individual at work prepares refrigeration equipment maintenance schedule checklist and monitors its preventive maintenance. The person is also responsible to oversee service and repair of cold chain equipment like condenser, compressor and evaporators, provide manpower and material resources to maintenance technicians, train plant engineers on handling and maintenance of refrigeration equipment.

Personal Attributes: The job requires the individual to have good eye sight, good physical fitness, be vigilant, have ability to work in low temperature environment for long duration and willingness to work by wearing protective gear.





Qualifications Pack Code	LSC/Q9101		
Job Role	Refrigeration Equipment Maintenance Specialist		
Credits(NSQF)	TBD	Version number	1.0
Sector	Logistics	Drafted on	10/08/16
Sub-sector	Cold Chain Logistics	Last reviewed on	11/01/17
Occupation	Maintenance	Next review date	11/01/20
NSQC Clearance on		NA	

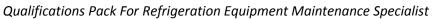
Job Role	Refrigeration Equipment Maintenance Specialist
	Also known as 'Maintenance Head or Officer'
Role Description	Planning and monitoring maintenance of refrigeration equipment, handling its service and repair and training plant engineers to perform maintenance tasks
NSQF	5
Minimum Educational Qualifications	ITI/Diploma
Maximum Educational Qualifications	Engineering graduate
Training (Mandatory)	HAZMAT training
Minimum Job Entry Age	25 years
Experience	Minimum preferable 5 years in cold room operations
Applicable National Occupational Standards (NOS)	Compulsory: 1. LSC/N9101 Plan the maintenance of refrigeration equipment 2. LSC/N9102 Monitor the maintenance of refrigeration equipment 3. LSC/N9103 Oversee service and repair refrigeration equipment 4. LSC/N9104 Undertake training for plant engineers 5. LSC/N9901 Maintain food and personnel safety, health and hygiene in cold storage plant 6. LSC/N9902 Communicate effectively with colleagues and clients Optional: 1. NA
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
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.







Acronyms

Keywords /Terms	Description
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
OS	Occupational Standards
OH&S	Occupational Health and Safety
PPE	Personal Protective Equipment
HR	Human Resources

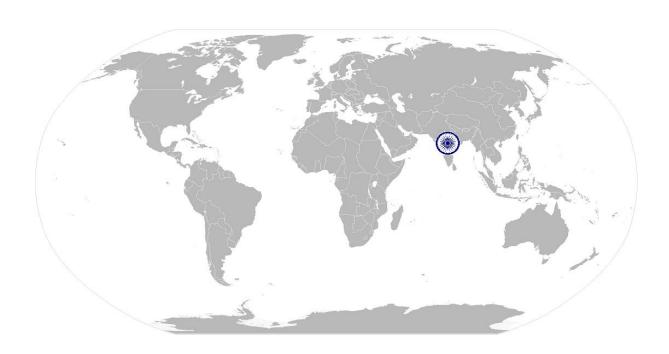






Plan the maintenance of refrigeration equipment

National Occupational Standard



Overview

This unit is about planning and preparing maintenance schedules as per requirements, and manage resources accordingly.







LSC/N9101 Plan the maintenance of refrigeration equipment

Unit Code	LSC /N9101		
Unit Title	Plan the maintenance of refrigeration equipment		
(Task)			
Description	This OS unit is about planning and preparing maintenance schedules as per		
	requirements, and manage resources accordingly		
Scope	This unit/task covers the following:		
	Prepare preventive maintenance schedule checklist for main refrigeration		
	equipment components		
	Manage manpower resources for maintenance		
	Handle supply of materials to the maintenance technicians		
	Range: compressor, condenser, evaporator, temperature and humidity sensor		
Dayfaymanaa Critaria/D			
Performance Criteria(P	C) w.r.t. the scope		
Element	Performance Criteria		
Preparing preventive	To be competent, the user/individual must be able to:		
maintenance	PC1. prepare work programme and schedules for maintenance of evaporator,		
schedule checklist	condenser and compressor		
	PC2. prioritize maintenance as per legislative laws, organization requirements,		
	resources, and environment		
	PC3. plan electrical system maintenance at least once in five years as per the		
	Institute of Electrical and Electronics Engineers Code of Practice		
	PC4. plan to check evaporators for defrosting and coil surface for dust		
	accumulation		
	PC5. ensure to check electrical connections for corroded terminals		
	PC6. ensure that the maintenance plan checks oil safety and high pressure controls		
	of compressor units		
	PC7. record the schedules for preventive maintenance		
	PC8. plan activities so as to minimize disruption to normal working PC9. ensure to schedule seasonal maintenance		
	PC10. make contingency plans for emergency situations regarding working of the		
	equipment		
Managing manpower	To be competent, the user/ individual must be able to:		
resources for	PC11. identify resources for maintenance based on the skills required		
maintenance	PC12. allocate resources for each maintenance activity		
	PC13. make contingency plans for variations in labour availability		
Handling supply of	To be competent, the user/ individual must be able to:		
materials to the	PC14. provide checklists for maintenance activities		
maintenance	PC15. provide information on priority and deadlines for the tasks, so that losses are		
technicians	minimized		
	PC16. provide necessary tools, components and protective gear to carry out		
	maintenance activities		
Knowledge and Under	Knowledge and Understanding (K)		







LSC/N9101	Plan the maintenance of refrigeration equipment	
A. Organizational	The individual on the job needs to know and understand:	
Context	KA1. organizational policies and guidelines	
(Knowledge of the	KA2. reporting structure	
company /	KA3. communication with relevant people in the organization to take their buy-in	
organization and	for maintenance schedule	
its processes)	KA4. organization safety and security procedures of refrigerant uage	
,	KA5. procedures to follow during emergency maintenance issues	
	KA6. formats for maintenance checklists used in the organization	
	KA7. roles and responsibilities of labourers in the cold storage area	
	KA8. problems that may arise to different departments in the organization due to	
B. Technical	maintenance activities and their solutions The individual on the ich peeds to know and understand:	
Knowledge	The individual on the job needs to know and understand: KB1. importance of prior planning for maintenance of refrigeration equipment	
Kilowicuge	KB2. finalization requirements for maintenance	
	KB3. Preparation of preventive maintenance schedules and checklists	
	KB4. optimal temperature and humidity conditions required for various products	
	handled by cold chain, for example,	
	Marine products: -18 to -21 degrees	
	Fruits and vegetables: -1 to 15 degrees; 95% to 98% RH; 65% to 75% RH for	
	onion and garlic; 40% to 50% RH for ns, dry fruits and vegetables	
	Dairy: -20 to +4 degrees	
	Dry fruits: 4 to 10 degrees	
	Pharma - chemicals and vaccines: – 4 to 10 degrees	
	KB5. product specific hygiene requirements	
	KB6. extent of ethylene production by each product and sensitivity of ethylene	
	exposure to products	
	KB7. how to prioritize activities in maintenance scheduling	
	KB8. necessary resources for each activity	
	KB9. safety standards and precautions to be ensured	
	KB10. procedures for isolating electrical systems (wiring to the equipment) safely	
	KB11. bonding of electrical system to the components after repair	
	KB12. selection of accessories and tools required for maintenance	
Skills (S)		
A. Core Skills/	Reading Skills	
Generic Skills	The user/individual on the job needs to know and understand how to:	
	SA1. read equipment manual and understand its working	
	SA2. read safety instructions	
	SA3. read legistative laws concerning equipment maintenance	
	SA4. read and understand equipment manufacturer's maintenance instructions	
	Writing Skills	
	The user/individual on the job needs to know and understand how to:	
	SA5. prepare maintenance schedules in the format followed by the organization	







LSC/N9101	Plan the maintenance of refrigeration equipment
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA6. communicate to workers clearly about the requirements in maintenance
	activities
	SA7. communicate to other departments like operations, packing and dispatch,
	quality check, admin and finance which get impacted due to equipment maintenance activities
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to:
	SB1. decide on priorities of activities planned
	SB2. consider relative costs and benefits of multiple solutions
	SB3. resolve emergency situations in equipment functioning
	Plan and Organize
	The user/individual on the job needs to know and understand how to:
	SB4. plan maintenance activities as per standard requirements and manufacturer's
	instructions
	SB5. plan equipment service based on its working condition SB6. plan resources by selecting, training, and ensuring discipline amongst them
	Customer Centricity
	Not Applicable
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB7. re-schedule tasks in case of delays or requirements by other departments in
	the organization
	SB8. handle allotment of tasks to workers in case of staff shortage or delays in
	activities
	Analytical Thinking
	The user/individual on the job needs to know and understand how to:
	SB9. interpret equipment diagram and information to identity which components
	need maintenance
	SB10. assess working condition of refrigeration equipment
	SB11. plan activities to minimize effects on normal working of the organization SB12. interpret electrical system diagrams
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB13. identify faults in the refrigerant equipment working
	SB14. use reasoning to identify alternative solutions
	SB15. assign criticality to the equipment problem, to plan and prioritize maintenance
	or repair tasks



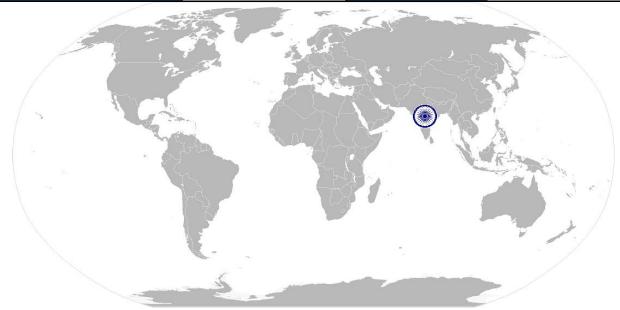




Plan the maintenance of refrigeration equipment

NOS Version Control

NOS Code	LSC/N9101		
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	10/08/16
Industry Sub-sector	Cold chain logistics	Last reviewed on	11/01/17
Occupation	Maintenance	Next review date	11/01/20



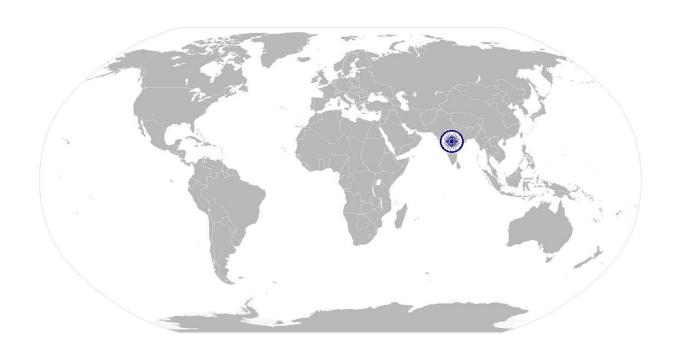






Monitor maintenance of refrigeration equipment

National Occupational Standard



Overview

This unit is about monitoring maintenance activities of refrigeration equipment to ensure that they are completed as per the plan.







LSC/N9102	Monitor maintenance of a	refrigeration equipment
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I	LSC/N9102	Monitor maintenance of refrigeration equipment
	Unit Code	LSC /N9102
	Unit Title (Task)	Monitor maintenance of refrigeration equipment
	Description	This OS unit is about monitoring maintenance activities of refrigeration equipment to ensure that they are completed as per the plan
	Scope	This unit/task covers the following:
		Ensure maintenance activities are completed as per time, budget and quality
		Ensure maintenance records are up-to-date
		Co-ordinate regularly with the workforce
		Range: compressor, condenser, evaporator, temperature and humidity sensor
	Performance Criteria(P	C) w.r.t. the Scope
	Element	Performance Criteria
	Ensuring	To be competent, the user/ individual must be able to:
	maintenance	PC1. Inspect regularly to ensure maintenance activities are done as per quality
	activities are	requirements
	completed as per	PC2. inspect regularly to ensure maintenance activities are completed timely
	time, budget and	PC3. inspect regularly to ensure maintenance activities are done within the costs
	quality	planned
		PC4. ensure that the quality of the products stored under refrigeration is not
		harmed while equipment components are being checked
		PC5. ensure that there is safe discharge of ammonia, so that excess refrigerant is
		discharged safely (not inside cold room and away from work area)
		PC6. ensure to keep drains in the cold area free of debris
		PC7. ensure to check operations of door seals regularly
		PC8. monitor the sequence of activities as per the schedule
		PC9. ensure workers are using protective gear during maintenance or repair
		PC10. ensure workers leave the area safe and clean after performing maintenance
		activities
		PC11. ensure that the equipment is calibrated correctly before use
	Ensuring	To be competent, the user/ individual must be able to:
	maintenance records	PC12. assign a resource to maintain records of refrigeration equipment
	are up-to-date	maintenance activities regularly
		PC13. conduct regular checks on maintenance log to see if it is current
		PC14. instruct concerned person to update records if it is not latest
		PC15. report to all concerned people in the organization in case the schedule cannot
		be met
	Co-ordinating	To be competent, the user/ individual must be able to:
	regularly with the	PC16. carry out walk around inspection regularly to monitor activities of
	workforce	subordinates
		PC17. communicate with workers as often as needed to ensure maintenance
		schedule is followed
		PC18. allocate parallel tasks to handle different components of refrigeration

equipment like evaporator, compressor and condenser, wherever possible







LSC/N9102	Monitor maintenance of refrigeration equipment			
PC19. observe the work efficiency of the workforce and identify training needs				
	wherever necessary			
Knowledge and Understanding (K)				
A. Organizational The individual on the job needs to know and understand:				
Context	KA1. organizational policies and guidelines			
(Knowledge of the	KA2. reporting structure			
company /	KA3. organization safety and security procedures of refrigerant uage			
organization and	KA4. procedures to follow during emergency maintenance issues			
its processes)	KA5. roles and responsibilities of labourers in the cold storage area			
	problems that may arise to different departments in the organization due to			
	maintenance activities and their solutions			
B. Technical	The individual on the job needs to know and understand:			
Knowledge	KB1. Recording and documenting maintenance activities and data			
	KB2. legal requirements involved in preparing relevant documents			
	KB3. optimal temperature and humidity conditions required for various products			
	handled by cold chain, for example,			
	Marine products: -18 to -21 degrees			
	Fruits and vegetables: -1 to 15 degrees; 95% to 98% RH; 65% to 75% RH for			
	onion and garlic; 40% to 50% RH for beans, dry fruits and vegetables			
	Dairy: -20 to +4 degrees			
	Dry fruits: 4 to 10 degrees			
	Pharma - chemicals and vaccines: – 4 to 10 degrees			
	KB4. product specific hygiene requirements			
	KB5. extent of ethylene production by each product and sensitivity of ethylene			
	exposure to products			
	KB6. checking leaks of ammonia			
	KB7. different types of refrigerant leak detectors, like Halide leak detector,			
	Electronic leak detector and soap and water test			
	KB8. monitoring refrigerants used			
	KB9. how to prioritize activities in maintenance scheduling			
	KB10. necessary resources for each activity			
	KB11. safety standards and precautions to be ensured			
	KB12. applications and effects of different refrigerants			
	KB13. methods for safe usage of refrigerants			
	KB14. relation between refrigeration gas pressure present and the temperature maintained			
	KB15. methods for safe disposal of obsolete equipment or its components			
	KB16. calculation of machine productivity			
	KB17. calculation of expenditures, monitoring variances in the budget for meeting			
	financial standards			
	KB18. how to review maintenance activities			
Skills (S)				







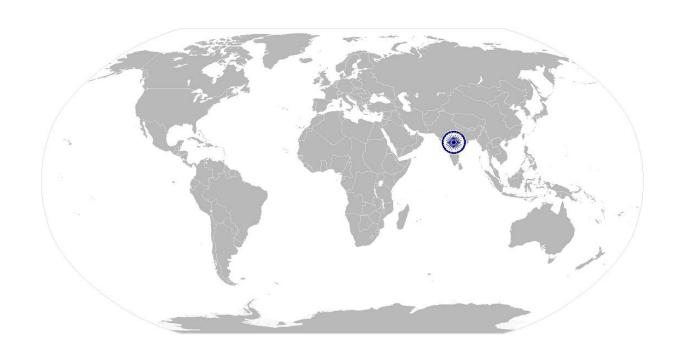
	C/N9102	Monitor maintenance of refrigeration equipment	
A.	Core Skills/	Reading Skills	
	Generic Skills	The user/individual on the job needs to know and understand how to:	
		SA1. read equipment manual and understand its working	
		SA2. read maintenance budgeting records	
		SA3. read safety instructions Writing Skills	
		The user/individual on the job needs to know and understand how to:	
		SA4. fill maintenance checklists as per completion of activities	
		SA5. do documentation regarding maintenance log	
		SA6. prepare document or report regarding finance, workforce or equipment	
		performance as required by the Management	
		Oral Communication (Listening and Speaking skills)	
		The user/individual on the job needs to know and understand how to:	
		SA7. communicate to workers clearly about the requirements in maintenance	
		activities	
		SA8. communicate any delays or changes in maintenance schedule with workers	
		amd other concerned departments like Operations, Packing and Dispatch,	
		Quality Check, Admin and Finance which get impacted due to equipment	
		maintenance activities	
		SA9. communicate with workers to ensure ciscipline in completing maintenance	
		activities	
В.	Professional Skills	Decision Making	
		The user/individual on the job needs to know and understand how to:	
		SB1. decide how to resolve emergency situations in equipment functioning	
		SB2. plan routine checks to ensure maintenance schedule is on track	
		Plan and Organize	
		The user/individual on the job needs to know and understand how to:	
		SB3. plan equipment service based on its working condition	
		SB4. organize activities based on budgeting constraints	
		Customer Centricity	
		The user/individual on the job needs to know and understand how to:	
		SB5. enforce storage and hygiene conditions as per the products handled for the	
organization or for its customers			
		Problem Solving	
		The user/individual on the job needs to know and understand how to:	
		SB6. re-schedule tasks in case of delays or requirements by other departments in	
		the organization	
		SB7. handle allotment of tasks to workers in case of staff shortage or delays in	
		activities	
		SB8. ability to resolve any conflicts that may arise between workers	
		Analytical Thinking	
		The user/individual on the job needs to know and understand how to: SB9. interpret equipment diagram and information to identity which components	







LSC/N9102	SC/N9102 Monitor maintenance of refrigeration equipment		
	need maintenance		
	SB10. assess working condition of refrigeration equipment		
	SB11. take initiatives to improve work process in equipment maintenance by taking		
	feedback from the workers		
	Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB12. identify faults in the refirgerant equipment working		
	SB13. assess criticality of the equipment problem, to prioritize maintenance or repair		
	tasks		
	SB14. keep track of verifiable sources for maintenance schedules and records made,		





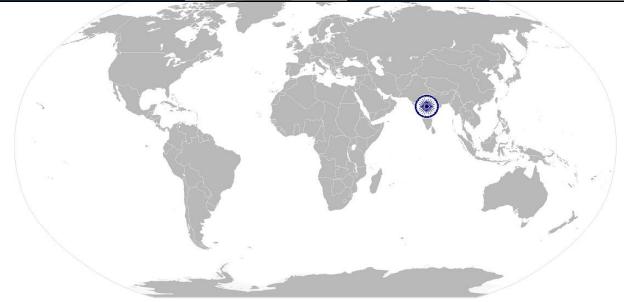




Monitor maintenance of refrigeration equipment

NOS Version Control

NOS Code	LSC/N9102		
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	10/08/16
Industry Sub-sector	Cold chain logistics	Last reviewed on	11/01/17
Occupation	Maintenance	Next review date	11/01/20









Oversee service and repair of refrigeration equipment

National Occupational Standard



Overview

This unit is about overseeing service and repair needs of the refrigeration equipment and ensuring that it is working as required.







LSC/N9103 Oversee service and repair of refrigeration equipment

Unit Code	LSC/N9103		
Unit Title (Task)	Oversee service and repair of refrigeration equipment		
Description	This OS unit is about overseeing service and repair needs of the refrigeration equipment and ensuring that it is working as required		
Scope	This unit/task covers the following:		
	Identify servicing as per refrigeration equipment manufaturer's instructions Troubleshoot the refrigeration equipment used.		
	 Troubleshoot the refrigeration equipment used Record performance of refrigeration equipment 		
	Range: compressor, condenser, evaporator, temperature and humidity sensor		
Performance Criteria(I	PC) w.r.t. the Scope		
Element	Performance Criteria		
Identifying servicing	To be competent, the user/ individual must be able to:		
as per equipment	PC1. plan types of maintenance activities based on manufacturer's instructions		
manufaturer's	PC2. plan the frequency of maintenance activities PC3. consider industry level standard practices while planning maintenance		
instructions	PC4. understand procedures while removing or replacing an evaporator or a		
	compressor		
Troubleshooting the	To be competent, the user/ individual must be able to:		
refrigeration	PC5. carry out tests or checks regularly to ensure system is working as required		
equipment used	PC6. check for freezer insulation degradation by observing compressor duty cycle,		
	condensation or presence of ice		
	PC7. check operation of defrost system and thermostat PC8. plan repairs limited to thermostats, electrical systems, start relays and defrost		
timers as much as possible			
	PC9. avoid repairs to the cooling system, if they are uneconomical, and consider		
	replacement of components		
	PC10. inspect cold store ceiling panel suspension rods and also their attachments at		
	least once a year		
	PC11. check discharge pressure and suction pressure in control system and make adjustments if necessary		
	PC12. ensure that service or repair activities follow hygiene procedures		
	PC13. trace faults in the components of refrigeration system when it arises		
	PC14. test the working of the equipment, after service or repair		
	PC15. ensure that the equipment is calibrated correctly before using		
Recording	To be competent, the user/ individual must be able to:		
performance of	PC16. maintain records of service and repair of refrigeration, electrical system, equipment components		
refrigeration	PC17. analyze the records to arrive at the performance of refrigerated equipment in		
equipment	terms of operating efficiency, downtime and conformity to the requirements		
Knowledge and Understanding (K)			







LSC/N9103	Oversee service and repair of refrigeration equipment	
A. Organizational	The user/individual on the job needs to know and understand:	
Context (Knowledge of the company / organization and its processes)	 KA1. organizational policies and guidelines KA2. reporting structure KA3. refrigerant usage with its relevant safety and security procedures KA4. procedures to follow during emergency maintenance and repair issues KA5. problems that may arise to different departments in the organization due to maintenance activities and their solutions 	
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. operating priciples of refrigeration equipment used based on the product type KB2. working of refrigeration equipment components KB3. industry standards or regulations related to servicing of refrigeration equipments KB4. how to rectify faulty equipment. Faults can include compressor failure, improper temperature controls for the products or restricted refrigerant checking leaks of ammonia KB5. checking leaks of ammonia KB6. monitoring refrigerants used KB7. relation between refrigeration gas pressure present and the temperature maintained KB8. recording maintenance activities performed so that it can help in analysis later KB9. type of hazards that can be encountered while performing service or repair activities KB10. bonding of electrical system to the components after repair analysing performance results to recommend and implement changes KB12. managing process for bringing in new equipment or its components	
Skills (S)	The same of the sa	
A. Core Skills/ Generic Skills	Reading Skills The user/ individual on the job needs to know and understand how to: SA1. read and understand work related documents SA2. read equipment manual and understand its working SA3. read safety instructions Writing Skills The user/ individual on the job needs to know and understand: SA4. filling of maintenance checklists as per completion of activities SA5. documentation regarding maintenance log SA6. preparation of reports for management regarding machine performance SA7. documenting details regarding faulty components Oral Communication (Listening and Speaking skills)	







LSC/N9103	Oversee service and repair of refrigeration equipment		
	The user/ individual on the job needs to know and understand how to:		
	SA8. communicate to workers clearly about the requirements in maintenance activities		
	SA9. communicate to other departments like Operations, Packing and Dispatch,		
	Quality Check, Admin and Finance which get impacted due to equipment		
	maintenance activities		
	SA10. mentor all the workers under supervision to increase operational		
	effectiveness		
B. Professional Skills	Decision Making		
	The user/ individual on the job needs to know and understand how to:		
	SB1. consider relative costs and benefits of repair and replacement of a		
	refrigeration equipment component		
	SB2. resolve emergency situations in equipment functioning		
	SB3. decide between repair or replacement of equipment or its components		
	Plan and Organize		
	The user/individual on the job needs to know and understand how to:		
	SB4. plan maintenance activities as per standard requirements and manufacturer's		
	instructions		
	SB5. plan equipment service based on its working condition		
	Customer Centricity		
	The user/ individual on the job needs to know and understand how to:		
	SB6. enforce storage and hygiene conditions as per the products handled for the		
	organization or for its customers		
	Problem Solving		
	The user/ individual on the job needs to know and understand how to:		
	SB7. re-schedule tasks in case of delays or requirements by other departments in		
	the organization		
	SB8. resolve problems in equipment's working by deciding appropriate repair		
	needs		
	Analytical Thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB9. interpret equipment diagram and information to identity which components		
	need maintenance		
	SB10. assess working condition of refrigeration equipment		
	SB11. evaluate reliability of the refrigeration equipment		
	Critical Thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB12. identify faults in the refrigerant equipment working		
	SB13. assess criticality of the equipment problem, to prioritize maintenance or		
	repair tasks		







Oversee service and repair of refrigeration equipment

NOS Version Control

NOS Code		LSC/N9103		
Credits(NSQF)	TBD	Version number	1.0	
Industry	Logistics	Drafted on	10/08/16	
Industry Sub-sector	Cold chain logistics	Last reviewed on	11/01/17	
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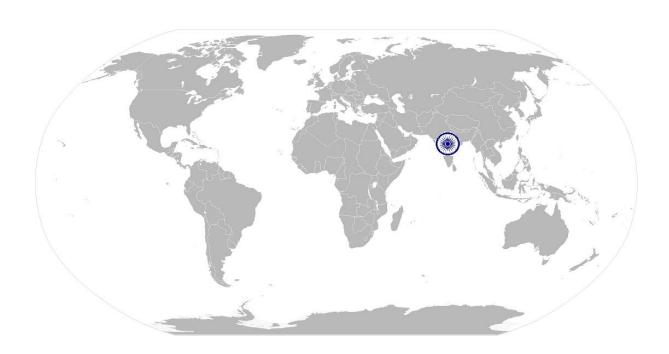






Undertake training for plant engineers

National Occupational Standard



Overview

This unit is about undertaking training activities for plant engineers.







LSC/N9104 Undertake training for plant engineers

250/10/10 :	Chartake training for plant engineers		
Unit Code	LSC/N9104		
Unit Title (Task)	Undertake training for plant engineers		
Description	This OS unit is about undertaking training activities for plant engineers.		
Scope	This unit/task covers the following: • Train on handling refrigerant fluids safely		
	 Train on maintenance of refrigeration equipment (for plant engineers as well as reefer vehicle operators) 		
	Range: compressor, condenser, evaporator, temperature and humidity sensor		
Performance Criteria(F	PC) w.r.t. the Scope		
Element	Performance Criteria		
Training on handling refrigerant fluids safely	To be competent, the user/ individual must be able to: PC1. train plant engineers to follow safety procedures while handling refrigerants PC2. provide information on hazardous effects of refrigerants to the environment PC3. train them to ensure refrigerant leaks do not enter work areas or closed room		
Training on maintenance of refrigeration equipment (for plant engineers as well as reefer vehicle operators) Knowledge and Unders	To be competent, the user/ individual must be able to: PC4: train plant engineers on complying with procedures and practices to maintain refrigeration equipment PC5: teach them procedures while removing or replacing an evaporator, condenser or compressor PC6: provide maintenance history details of the refrigeration equipment, to help in familiarizing with the routine requirements PC7: sensitize plant engineers on energy consumption of refrigeration equipment PC8: provide information on dismantling refrigeration components to trace faults PC9: train plant engineers to inspect the components in need of repair or service PC10: teach plant engineers to reinstate components into the refrigeration equipment PC11: train plant engineers to understand control circuit diagrams of the refrigeration system PC12: train plant engineers on usage of appropriate tools and techniques while handling repairs of evaporators, consenders or compressors PC13: train plant engineers on undertaking numerical calculations or data entry mechanisms required for the activities PC14: train them on emergency responses in case of malfunctioning of refrigeration equipment as a whole or its components like evaporator, condenser or compressor		
Knowledge and Unders	equipment as a whole or its components like evaporator, condenser or compressor		







LSC/N9104 Undertake training for plant engineers

	KA1.	organizational policies and guidelines
A. Organizational	KA2.	reporting structure
Context	KA3.	organization safety and security procedures of refrigerant usage
(Knowledge of the	KA4.	procedures to follow during emergency maintenance issues
company /	KA5.	roles and responsibilities of labourers in the cold storage area
organization and	KA6.	knowledge of transport department procedures
its processes)	KA7.	understand procedures for safe transport and disposal of waste materials
		after maintenance
	KA8.	costs and energy consumption of refrigeration equipment used in the
		organization
B. Technical	The use	er/individual on the job needs to know and understand:
Knowledge	KB1.	operating principles of refrigeration equipment used based on the product
	1011	type
	KB2.	working of refrigeration equipment components
	KB3.	mechanics and hydraulics
	KB4.	techniques to dismantle equipment and analyse defects
	KB5.	recording maintenance activities performed so that it can help in analysis
	~~\n\z	later
	KB6.	type of hazards that can be encounted while performing maintenance
	37	activities
	KB7.	optimal temperature and humidity conditions required for various products
		handled by cold chain, for example,
		Marine products: -18 to -21 degrees
		Fruits and vegetables: -1 to 15 degrees; 95% to 98% RH; 65% to 75% RH for
	1	onion and garlic; 40% to 50% RH for beans, dry fruits and vegetables
		Dairy: -20 to +4 degrees
		Dry fruits: 4 to 10 degrees
		Pharma - chemicals and vaccines: – 4 to 10 degrees
	KB8.	product specific hygiene requirements
	KB9.	extent of ethylene production by each product and sensitivity of ethylene
		exposure to products
	KB10.	relation between refrigeration gas pressure present and the temperature
		maintained
	KB11.	activities involved in loading and unloading from reefer vehicles
	KB12.	importance of maintaining temperatures for products in reefer vehicles even
		after docking
	KB13.	monitoring temperature and humidity conditions inside reefer vehicles during
		driving
	KB14.	different types of refrigerant leak detectors, like Halide leak detector,
		Electronic leak detector and soap and water test
		22







LSC/N9104	Undertake training for plant engineers	;
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KB15. hygiene requirements to ensure one product does not affect another printerms of smell, or ethylene emission Skills (S) A. Core Skills/ Reading Skills			
A. Core Skills/ Reading Skills			
	Reading Skills		
Generic Skills The user/ individual on the job needs to know and understand how to:			
SA1. read technical documents regarding refrigeration equipment and update	e job		
role knowledge			
SA2. read equipment manual and understand its working			
SA3. read safety instructions			
-	Writing Skills		
The user/ individual on the job needs to know and understand:			
SA4. filling of maintenance checklists as per completion of activities			
SA5. documentation regarding maintenance log			
SA6. documenting details regarding faulty components			
Oral Communication (Listening and Speaking skills)			
The user/ individual on the job needs to know and understand how to:			
SA7. communicate to trainees clearly about the requirements in maintenance	5		
activities			
	SA8. communicate clearly the expectation from the plant engineer's job role		
SA9. communicate technical knowledge regarding equipment functioning			
SA10. listen and understand all queries or doubts the trainees have during the			
training			
B. Professional Skills Decision Making			
The user/individual on the job needs to know and understand how to:			
SB1. decide training modules combined with practical exposure			
SB2. resolve emergency situations in equipment functioning			
Plan and Organize	Plan and Organize		
The user/individual on the job needs to know and understand how to:			
SB3. plan training activities			
SB4. organize practical learning techniques SB5. plan to train plant engineers all maintenance activities as per standard			
requirements and equipment manufacturer's instructions			
Customer Centricity			
Not Applicable	Not Applicable		
Problem Solving	• • • • • • • • • • • • • • • • • • • •		
The user/ individual on the job needs to know and understand how to:			
SB6. help solve all queries or difficulties faced by trainees			
SB7. re-schedule tasks in case of delays or requirements by other departmen	ts in		
the organization			
SB8. handle allotment of tasks to workers in case of staff shortage or delays i	n		
activities			

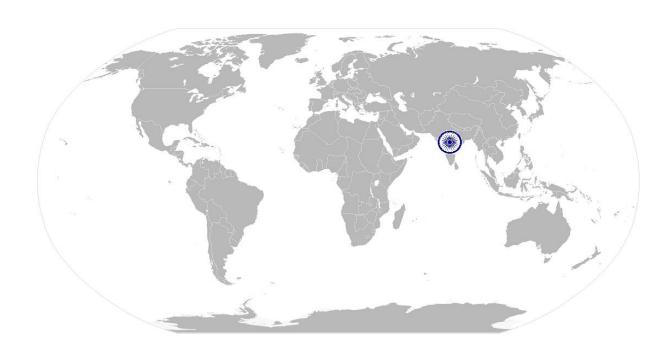






LSC/N9104 Undertake training for plant engineers

LDC/11/2104	officer take training for plant engineers		
	Analytical Thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB9. interpret equipment diagram and information to identity which components		
	need maintenance		
	SB10. assess working condition of refrigeration equipment		
	SB11. plan activities to minimize effects on normal working of the organization		
	Critical Thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB12. identify faults in the refrigerant equipment working		
	SB13. plan training modules as per the criticality of the maintenance activities and		
	experience of the plant engineer		









Undertake training for plant engineers

NOS Version Control

NOS Code	LSC/N9104		
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	10/08/16
Industry Sub-sector	Cold chain logistics	Last reviewed on	11/01/17
Occupation	Maintenance	Next review date	11/01/20



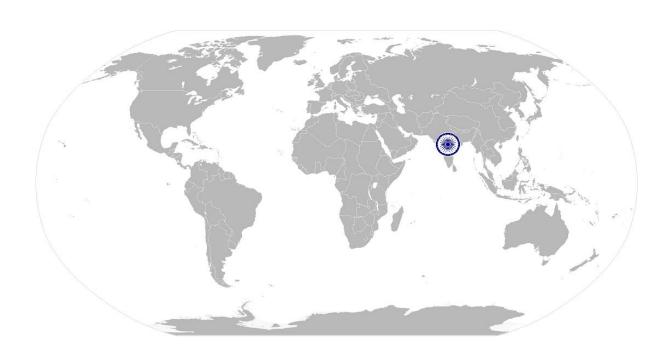






Maintain food and personnel safety, health and hygiene in cold storage plant

National Occupational Standard



Overview

This unit is about complying with safety, health and hygiene at the workplace to have a hazard-free environment and avoid downtime.







Unit Code	LSC/N9901
Unit Title	Maintain food and personnel safety, health and hygiene in cold storage plant
(Task)	
Description	This OS unit is about complying with safety, health and hygiene at the workplace to have a hazard-free environment and avoid downtime
Scope	This unit/task covers the following:
	Take precautionary measures to avoid work hazards
	Follow standard health, safety and hygiene procedures
Performance Criteria(F	PC) w.r.t. the Scope
Element	Performance Criteria
Taking precautionary	To be competent, the user/ individual must be able to:
measures to avoid	PC1. assess the various health, safety and environmental hazards in the cold storage
work hazards	PC2. take necessary steps to eliminate or minimize the hazards
	PC3. analyze the causes of accidents at the workplace
	PC4. take preventive measures to avoid risk of cold burns and other injury due to
	contact with hot surfaces, gas, fire, hot fluids/ liquids, etc.
	PC5. ensure the employees have access to first aid kit when needed
	PC6. ensure to use personal protective equipment and safety gear such as gloves,
	jacket, footwear etc. for loading and unloading material in cold rooms to
	protect themselves from hypothermia, frostbite etc
	PC7. ensure to display safety signs at places where necessary for people to be cautious
	PC8. use rubber mats in the places where floors are constantly wet
	PC9. ensure electrical precautions such as insulated clothing, adequate equipment
	insulation, dry work area, switch off the power supply when not required, etc
	PC10. display emergency exit plan at prominent places and have emergency assembly
	area earmarked as a grid for easy counting of on duty associates and workers.
	PC11. unplug the control panel, compressor, condensor etc before performing
	maintenance
	PC12. report to the superior on any problems and hazards identified
	PC13. install fire alarms (electrical/manual) in cold store/deep freeze and keep other
	safety devices like hammer/mallet in the storage area
Following standard	To be competent, the user/individual must be able to:
health, safety and	PC14. maintain appropriate ventilation in the cold rooms to avoid unacceptable
hygiene procedures	accumulation of heat, condensation or odours
10.5.13 p. 000aa.00	PC15. check and review the cold storage areas frequently
	PC16. stack items in an organized way and use safe lifting techniques to reduce risk
	of injuries from handling procedures at the storage areas
	PC17. ensure no sign of pest infestation and install rodent traps, fly glues and
	insectocutors wherever needed
	PC18. follow hygiene & sanitation standards of Government bodies like FSSAI, APEDA
	and /or EIA or importing countries like FAO, EU standards after PC 20







	 PC19. use effective loading and unloading systems PC20. proper stock rotation (First in First out) to be practised PC21. segregate damaged/ non-conforming products from other products to designate area for appropriate disposition PC22. fumigate containers depending upon product and contamination or as per customers' requirement PC23. avoid smoking, spitting, eating etc near food storage area PC24. ensure reefers are covered, clean, free from pest infestation & other contaminants PC25. dispose cold storage plant waste in the designated areas safely as per company's policies and rules PC26. ensure to be safe while handling machines(generator, compressor, condensor etc), gas (ammonia) and chemicals(ethylene, refrigerants etc) PC27. keep the floors free from oil, water and grease to avoid slippery surface PC28. cut nails regularly and avoid applying nail paint. Avoid wearing bangles, rings, and chains in cold storage PC29. wash hands with soap solution and dry under a dryer as they enter for duty or after using wash room PC30. periodic examination of protective devices, pressure vessels and pipelines, and parts of pipework by a competent person to prevent defect that may give rise to danger PC31. ensure workers suffering from abscess, poils etc should be relieved from food handling PC32. develop personal hygiene habits like brushing teeth, taking shower everybody, wearing clean and tidy clothes after ironing etc
A. Organizational Context (Knowledge of the company / organization and its processes)	The individual on the job needs to know and understand: KA1. company's HR policies on personnel management KA2. company's reporting structure KA3. occupational health and safety standards KA4. cold storageplant inspection checklist KA5. company's sanitary standard operating procedures KA6. procedures to follow during emergency maintenance issues KA7. technical standards for design and construction of cold storages: Bureau of Indian standards(BIS), International standard(ISO) etc
B. Technical Knowledge	The individual on the job needs to know and understand: KB1. the purpose and usage of protective gears such as gloves , jackets etc. while working KB2. use of first aid at workplace KB3. cold storage order 1980 KB4. food safety and standards act 2006 KB5. reporting procedure or heirarchy for signs of damage and potential hazards







	KB6. methods to minimize accidental risks		
	KB7. safe storage and handling of chemicals like refrigerants, ammonia, ethylene		
	etc		
	KB8. loading and unloading systems		
	KB9. standard operating procedure for safety drills and equipment maintenance		
	KB10. operation of machines: compressor, condensor, evaporator etc		
	KB11. emergency procedures to be followed in case of an mishap such as fire,		
	accidents, etc. and communication of safety instructions to subordinate		
	staff		
	KB12. emergency responses in case of malfunctioning of refrigeration equipment as		
	a whole or its components like evaporator, condenser or compressor		
	KB13. solid, liquid and gaseous waste disposal, treatment norms and equipment		
	KB14. necessary action to be taken for the hazards identified		
	KB15. knowledge of Quality systems like BRC, FSSAI, ISO, FSSC, HACCP etc		
Skills (S)			
A. Core Skills/	Reading Skills		
Generic Skills	The user/individual on the job needs to know and understand how to:		
Concret Chang	SA1. read and interpret the relevant organisation policies, procedures and		
	diagrams that identify health, safety and safe environmental practices.		
	SA2. read job sheets, company policy documents and information displayed at the		
	workplace for health, safety and environment.		
	SA3. read notes/comments from the senior		
	Writing Skills		
	-		
	The user/individual on the job needs to know and understand how to:		
	SA4. fill up documentation related to health, safety and environmental standards,		
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	SA5. verbally report health, safety and environmental hazards and poor		
	organisation practice.		
	SA6. communicate to the supervisor about the work health, safety and		
	environmental issues		
	SA7. receive instructions from supervisor on minimizing the risks		
	SA8. communicate with co-workers about the precautions to be taken for hazards		
	free work		
B. Professional Skills	Decision Making		
	The user/individual on the job needs to know and understand how to:		
	SB1. take preventive measures for the identified hazards		
	SB2. select appropriate hand tools and personal protection equipment		
	SB3. identify first aid needs in case of an injury		
	Plan and Organize		
	The user/individual on the job needs to know and understand how to:		
	The aser, marriada on the job needs to know and understand now to.		







SB4. formalize and display evacuation plan at strategic locations	
Customer Centricity	
The user/ individual on the job needs to know and understand how to: SB5. ensure targeted product delivery by practicing stipulated standards of occupational health safety and environmental measures	
Problem Solving	
The user/individual on the job needs to know and understand how to: SB6. take care of personal and equipment protection SB7. identify the hazards and suggest possible solutions	
Analytical Thinking	
The user/individual on the job needs to know and understand how to: SB8. use safety equipment such as fire extinguisher during fire accidents SB9. store tools in a safe way SB10. analyse the seriousness of the hazards	
Critical Thinking	
The user/individual on the job needs to know and understand how to: SB11. evolve smooth workflow by avoiding hazards at workplace SB12. evaluate and apply the possible solutions for the hazards, as necessary	

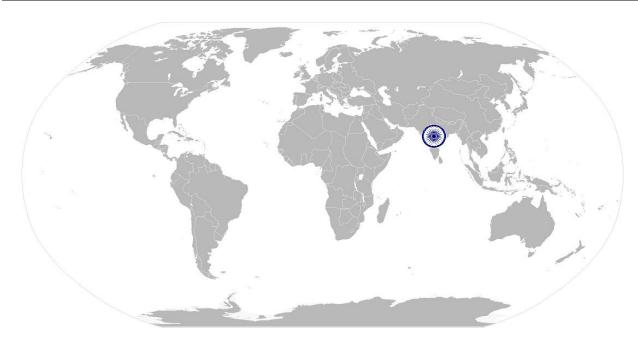






NOS Version Control

NOS Code	LSC/N9901		
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	08/08/16
Industry Sub-sector	Cold chain logistics	Last reviewed on	11/01/17
Occupation	Maintenance	Next review date	11/01/20



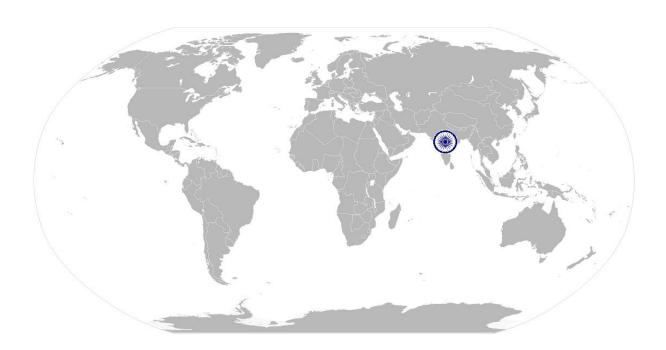






Communicate effectively with colleagues and clients

National Occupational Standard



Overview

This unit is about coordinating and communicating effectively with seniors, colleagues and clients to achieve a smooth workflow.







LSC/N9902 Communicate effectively with colleagues and clients

Unit Code	LSC/N9902
Unit Title (Task)	Communicate effectively with colleagues and clients
Description	This OS unit is about coordinating and communicating effectively with seniors, colleagues and clients to achieve a smooth workflow
Scope	This unit/task covers the following:
	Interact with seniorsCommunicate with colleagues
	Communicate effectively with clients
Performance Criteria(I	PC) w.r.t. the Scope
Element	Performance Criteria
Interacting with seniors	To be competent, the user/individual must be able to: PC1. understand the work output requirements, targets, performance indicators and incentives PC2. deliver quality work on time and report any anticipated reasons for delays PC3. escalate unresolved problems or complaints to the relevant superior PC4. communicate project progress proactively to the superior PC5. receive feedback on work standards PC6. document the completed work schedule and handover to the superior
Communicating with colleagues	To be competent, the user/ individual must be able to: PC7. exhibit trust, support and respect to all the colleagues in the workplace PC8. aim to achieve hassle free cold chain operation PC9. help and assist colleagues with information and knowledge PC10. seek assistance from the colleagues when required PC11. identify the potential and existing conflicts with the colleagues and resolve PC12. pass on essential information to other colleagues on timely basis PC13. maintain the etiquette, use polite language, demonstrate responsible and disciplined behaviors to the colleagues PC14. interact with colleagues from different departments: ripening chamber, cold storage, transport, packhouse etc to effectively carry out the work among the team and understand the nature of their work PC15. put team over individual goals and multi task or share work where necessary supporting the colleagues PC16. highlight any errors of colleagues, help to rectify and ensure quality output PC17. work with cooperation, coordination, communication and collaboration, with shared goals and supporting each others performance
Communicating effectively with clients	To be competent, the user/ individual must be able to: PC18. ask relevant questions to the client and identify their needs PC19. possess strong knowledge on market and cold chain operation PC20. brief the client clearly on potential costs and challenges involved in the cold chain industry PC21. communicate with the client in a polite, professional and friendly manner







LSC/N9902 Communicate effectively with colleagues and clients

PC	22. build effective but impersonal relationship with the client
PC	23. ensure the appropriate language and tone are used with clients
PC	24. listen actively and have a two way communication
PC	25. be sensitive to the gender, cultural and social differences such as modes of greeting, formality, etc.
PC	understand the client expectations correctly and provide the appropriate products and services
PC	27. understand the client dissatisfaction and address or escalate their complaints effectively
PC	28. maintain a positive, sensible and cooperative manner all time
PC	29. ensure to maintain a proper body language, dress code, gestures and etiquettes towards the client
PC	30. avoid interrupting the client while they talk
PC	31. ensure to avoid negative questions and statements to the client
PC	32. inform the client on any issues or problems before hand and also on the developments involving them
PC	33. ensure to respond back to the client immediately for their voice messages, emails, apps, etc.
PC	34. develop good rapport with the client and promote other products and services
PC	35. seek feedback from the client on their understanding to what was discussed
PC	36. explain the terms and conditions clearly
War Indoored Hadron	D (12)

Knowledge and Understanding (K)

A. Organizational	The individual on the job needs to know and understand:
Context (Knowledge of the company / organization and its processes)	 KA1. vision, mission and values of the company KA2. business and performance of the company KA3. company's policies on personnel management, effective team work at workplace KA4. company's HR policies KA5. company's reporting structure KA6. company's documentation policy KA7. company's customer profile KA8. occupational health and safety standards KA9. company's policy on business ethics and code of conduct
B. Technical Knowledge	The individual on the job needs to know and understand: KB1. methods for effective communication with various categories of people and the different departments in the organization KB2. significance of team coordination and productivity targets of the organisation KB3. how to record the job activity as required on various types of documents KB4. how to use computer or smartphone to communicate effectively and productively KB5. significance of helping colleagues with specific issues and problems KB6. importance of meeting quality and time standards as a team







LSC/N9902 Communicate effectively with colleagues and clients

	KB7. how to practice effective listening and talking KB8. effective use of voice tone and pitch for communication KB9. how to demonstrate ethics and convey discipline to the clients KB10. how to build effective working relationship with mutual trust and respect within the team		
	KB11. importance of dealing with grievances effectively and in time		
Skills (S)			
A. Core Skills/	Reading Skills		
Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. read job sheets, company policy documents and information displayed at the workplace SA2. read notes/comments from the senior		
	Writing Skills		
	The user/ individual on the job needs to know and understand how to: SA3. fill up documentation pertaining to job requirement		
	Oral Communication (Listening and Speaking skills)		
	The user/ individual on the job needs to know and understand how to: SA4. interact with team members to work efficiently SA5. communicate effectively with sen on achieve smooth workflow SA6. communicate effectively with the clients to build a good rapport with them SA7. use language that the client or colleague understands SA8. use the communication systems of the company, e.g., telephone, fax, public announcement systems SA9. E-mail and use Internet for communicating SA10. use of audio-visual aids to communicate complex issues		
B. Professional Skills	Decision Making		
	The user/ individual on the job needs to know and understand how to: SB1. spot and communicate potential areas of disruptions to work process and report the same SB2. report to supervisor and deal with a colleague individually, depending on the type of concern		
	Plan and Organize		
	The user/ individual on the job needs to know and understand how to: SB3. plan communication strategy in order to avoid conflicts and work disruption Customer Centricity		
	The user/ individual on the job needs to know and understand how to: SB4. practice patient listening, careful talking and paraphrasing in order to avoid misunderstanding		
	Problem Solving		
	The user/ individual on the job needs to know and understand how to: SB5. coordinate with different departments and multi-task as necessary		







LSC/N9902 Communicate effectively with colleagues and clients

SB6.	contribute to quality of	f team work and	l achieve smooth workflow
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SB7. share work load as required

SB8. delegate work in consultation with senior or as necessary instead of allowing work to pile up

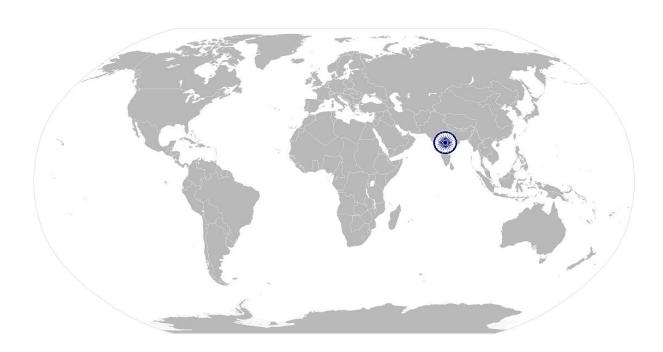
Analytical Thinking

The user/ individual on the job needs to know and understand how to: SB9. resolve recurring inter-personal conflicts by clear and two-way dialogue

Critical Thinking

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

SB10. improve work processes by interacting with others and adopting best practices





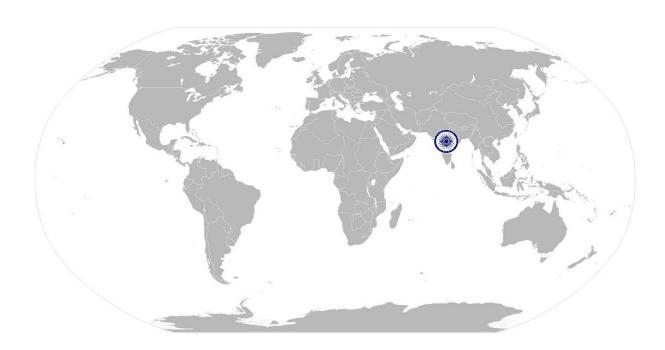




LSC/N9902 Communicate effectively with colleagues and clients

NOS Version Control

NOS Code	LSC/N9902						
Credits(NSQF)	TBD	Version number	1.0				
Industry	Logistics	Drafted on	08/08/16				
Industry Sub-sector	Cold chain logistics	Last reviewed on	11/01/17				
Occupation	Maintenance	Next review date	11/01/20				



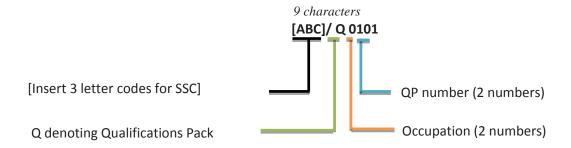




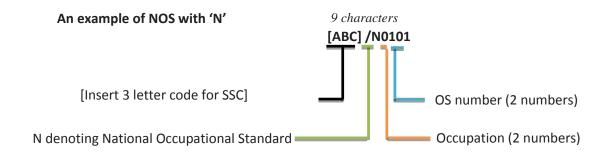
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard







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

Sub-sector	Range of Occupation numbers
Land Transportation	11,14
Shipping Transportation	12,14
Air Transportation	13
Warehousing Storage	21,23
Warehouse Packaging	22,23
Courier and Mail Services	30
Shipping / Port Operation	46 – 60
Air cargo operation	61 – 75
EXIM logistics	76 – 85
Cold Chain Logistics	86 - 95
Generic Occupations	96 – 99

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





CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Refrigeration Equipment Maintenance Specialist

Qualification Pack LSC/Q9101

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 criteria
- 5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS
- 6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

		Performance Criteria	Total Marks (300)	Out of	Theory	Skills Practical
	PC1.	prepare work programme and schedules for maintenance of evaporator, condenser and compressor		4	1	3
	PC2.	prioritize maintenance as per legislative laws, organization requirements, resources, and environment		3	1	2
	PC3.	plan electrical system maintenance at least once in five years as per the Institute of Electrical and Electronics Engineers Code of Practice		3	1	2
LSC/N9101 Plan the	PC4.	plan to check evaporators for defrosting and coil surface for dust accumulation	50	4	1	3
maintenance of refrigeration	PC5.	ensure to check electrical connections for corroded terminals		3	1	2
equipment	PC6.	ensure that the maintenance plan checks oil safety and high pressure controls of compressor units		3	1	2
	PC7.	record the schedules for preventive maintenance		3	1	2
	PC8.	plan activities so as to minimize disruption to normal working		3	1	2
	PC9.	ensure to schedule seasonal maintenance		3	1	2





	Performance Criteria	Total Marks (300)	Out of	Theory	Skills Practical
PC10.	make contingency plans for emergency situations regarding working of the equipment		3	1	2
PC11.	identify resources for maintenance based on the skills required		3	1	2
PC12.	allocate resources for each maintenance activity		4	1	3
PC13.	make contingency plans for variations in labor availability		3	1	2
PC14.	provide checklists for maintenance activities; provide necessary tools, components and protective gear to carry out maintenance activities		5	1	4
PC15.	provide information on priority and deadlines for the tasks, so that losses are minimized		3	1	2
POINTS			50	15	35
TOTAL I	POINTS				50

		Performance Criteria	Total Marks (300)	Out of	Theory	Skills Practical
	PC1.	inspect regularly to ensure maintenance activities are done as per quality requirements		3	1	2
	PC2.	inspect regularly to ensure maintenance activities are completed timely		3	1	2
	PC3.	inspect regularly to ensure maintenance activities are done within the costs planned		3	1	2
LSC/N9102	PC4.	ensure that the quality of the products stored under refrigeration is not harmed while equipment components are being checked	50	4	1	3
Monitor maintenance of refrigeration equipment	PC5.	ensure that there is safe discharge of ammonia, so that excess refrigerant is discharged safely (not inside cold room and away from work area)		4	1	3
	PC6.	ensure to keep drains in the cold area free of debris; ensure to check operations of door seals regularly		4	1	3
	PC7.	monitor the sequence of activities as per the schedule		3	1	2
	PC8.	ensure workers are using protective gear during maintenance or repair; ensure workers leave the area safe and clean after performing maintenance activities		5	1	4
	PC9.	ensure that the equipment is		3	1	2





	Performance Criteria	Total Marks (300)	Out of	Theory	Skills Practical
	calibrated correctly before use				
PC10.	assign a resource to maintain records of refrigeration equipment maintenance activities regularly		2	1	1
PC11.	conduct regular checks on maintenance log to see if it is current; instruct concerned person to update records if it is not latest		3	1	2
PC12.	report to all concerned people in the organization in case the schedule cannot be met		3	1	2
PC13.	carry out walk around inspection regularly to monitor activities of subordinates; communicate with workers as often as needed to ensure maintenance schedule is followed		4	1	3
PC14.	allocate parallel tasks to handle different components of refrigeration equipment like evaporator, compressor and condenser, wherever possible		3	1	2
PC15.	observe the work efficiency of the workforce and identify training needs wherever necessary		3	1	2
POINTS	· · · · · · · · · · · · · · · · · · ·		50	15	35
TOTAL	POINTS				50

		Performance Criteria	Total Marks (300)	Out of	Theory	Skills Practical
	PC1.	plan types of maintenance activities based on manufacturer's instructions; plan the frequency of maintenance activities		4	1	3
	PC2.	consider industry level standard practices while planning maintenance		3	2	1
LSC/N9103	PC3.	understand procedures while removing or replacing an evaporator or a compressor		3	1	2
Oversee service and repair of	PC4.	carry out tests or checks regularly to ensure system is working as required	50	4	1	3
refrigeration equipment	PC5.	check for freezer insulation degradation by observing compressor duty cycle, condensation or presence of ice; check operation of defrost system and thermostat		4	1	3
	PC6.	plan repairs limited to thermostats, electrical systems, start relays and defrost timers as much as possible; avoid repairs to the cooling system, if		4	1	3





	Performance Criteria	Total Marks (300)	Out of	Theory	Skills Practical
	they are uneconomical, and consider replacement of components				
PC7.	inspect cold store ceiling panel suspension rods and also their attachments at least once a year		3	1	2
PC8.	check discharge pressure and suction pressure in control system and make adjustments if necessary		4	1	3
PC9.	ensure that service or repair activities follow hygiene procedures		4	1	3
PC10.	trace faults in the components of refrigeration system when it arises		4	1	3
PC11.	test the working of the equipment, after service or repair		3	1	2
PC12.	ensure that the equipment is calibrated correctly before using		4	1	3
PC13.	maintain records of service and repair of refrigeration, electrical system, equipment components		3	1	2
PC14.	analyze the records to arrive at the performance of refrigerated equipment in terms of operating efficiency, downtime and conformity to the requirements		3	1	2
POINTS			50	15	35
TOTAL	POINTS				50

		Performance Criteria	Total Marks (300)	Out of	Theory	Skills Practical
	PC1.	train plant engineers to follow safety procedures while handling refrigerants		4	1	3
	PC2.	provide information on hazardous effects of refrigerants to the environment		4	1	3
LSC/N9104 Undertake	PC3.	train them to ensure refrigerant leaks do not enter work areas or closed room	50 3	3	1	2
training for plant engineers	PC4.	train plant engineers on complying with procedures and practices to maintain refrigeration equipment		3	1	2
	PC5.	teach them procedures while removing or replacing an evaporator, condenser or compressor		4	1	3
	PC6.	provide maintenance history details of the refrigeration equipment, to help in familiarizing with the routine requirements		3	1	2





	Performance Criteria	Total Marks (300)	Out of	Theory	Skills Practical
PC7.	sensitize plant engineers on energy consumption of refrigeration equipment		3	1	2
PC8.	provide information on dismantling refrigeration components to trace faults		4	1	3
PC9.	train plant engineers to inspect the components in need of repair or service		4	1	3
PC10.	teach plant engineers to reinstate components into the refrigeration equipment		3	1	2
PC11.	train plant engineers to understand control circuit diagrams of the refrigeration system		4	1	3
PC12.	train plant engineers on usage of appropriate tools and techniques while handling repairs of evaporators, consenders or compressors		4	1	3
PC13.	train plant engineers on undertaking numerical calculations or data entry mechanisms required for the activities		3	1	2
PC14.	train them on emergency responses in case of malfunctioning of refrigeration equipment as a whole or its components like evaporator, condenser or compressor		4	2	2
POINTS			50	15	35
TOTAL	POINTS				50

	Perfori	mance Criteria	Total Marks (300)	out of	Theory	Practical
LSC/N9901 Maintain food and personnel safety, health	PC1.	assess the various health, safety and environmental hazards in the cold storage; take necessary steps to eliminate or minimize the hazards; analyze the causes of accidents at the workplace; take preventive measures to avoid risk of burns and other injury due to contact with hot surfaces, gas, fire, hot fluids/ liquids, etc	50	5	2	3
and hygiene in cold storage plant	PC2.	ensure the employees have access to first aid kit when needed; ensure to use personal protective equipment and safety gear such as gloves, jacket, footwear etc. for loading and unloading material in cold rooms to protect themselves from hypothermia, frostbite etc;		2	1	1





where necessary for people to be cautious; use rubber mats in the places where floors are constantly wet; ensure electrical precautions such as insulated clothing, adequate equipment insulation, dry work area, switch off the power supply when not required, etc; practice correct emergency procedures; operating fire extinguishers, emergency exits, etc; unplug the control panel, compressor, condensor etc before performing maintenance; report to the superior on any problems and hazards identified PC4. install fire alarms (electrical/manual) in cold store/deep freeze and keep other safety devices like hammer/mallet in the storage area PC5. maintain appropriate ventilation in the cold rooms to avoid unacceptable accumulation of heat, condensation or odours; check and review the cold storage areas frequently PC6. stack items in an organized way and use safe lifting techniques to reduce risk of injuries from handling procedures at the storage areas; use effective loading and unloading systems; proper stock rotation (First in First out) to be practised; segregate damaged/ non-conforming products from other products to designate area for appropriate disposition PC7. ensure no sign of pest infestation and install rodent traps, fly glues and insectocutors wherever needed; follow hygiene & sanitation standards of Government bodies like FSAA, APEDA and /or EIA or importing countries like FAO, EU standards; fumigate containers depending upon product and contamination or as per customers' requirement PC8. avoid smoking, spitting, eating etc near food storage area; cut nails regularly and avoid applying nail paint. Avoid wearing bangles, rings, and chains in cold storage; develop personal hygiene habits like brushing teeth, taking shower everybody, wearing clean and tidy clothes after ironing etc; wash hands with soap solution and dry under		ons Pack For Rejrigeration Equipment iv	iuiiiteiiuii	ice speciali	St /	Corpor
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TOTAL P	POINTS		5	0
POINTS		50	20	30
PC13.	ensure workers suffering from abscess, boils etc should be relieved from food handling	2	1	1
PC12.	periodic examination of protective devices, pressure vessels and pipelines, and parts of pipework by a competent person to prevent defect that may give rise to danger	5	2	3
PC11.	ensure to be safe while handling machines(generator, compressor, condensor etc), gas (ammonia) and chemicals(ethylene, refrigerants etc); keep the floors free from oil, water and grease to avoid slippery surface	3	1	2
PC10.	dispose cold storage plant waste in the designated areas safely as per company's policies and rules	5	2	3
PC9.	ensure reefers are covered, clean, free from pest infestation & other contaminants	3	1	2
	using wash room			<u> </u>

	Perforn	nance Criteria	Total Marks (300)	out of	Theory	Practical
	PC1.	understand the work output requirements, targets, performance indicators and incentives		4	2	2
	PC2.	deliver quality work on time and report any anticipated reasons for delays; escalate unresolved problems or complaints to the relevant superior; receive feedback on work standards; document the completed work schedule and handover to the superior		4	2	2
LSC/N9902 Communicate	PC3.	exhibit trust, support and respect to all the colleagues in the workplace		3	1	2
effectively with colleagues and	PC4.	aim to achieve hassle free cold chain operation	50	4	2	2
clients	PC5.	help and assist colleagues with information and knowledge; seek assistance from the colleagues when required; pass on essential information to other colleagues on timely basis; highlight any errors of colleagues, help to rectify and ensure quality output		3	1	2
	PC6.	identify the potential and existing conflicts with the colleagues and resolve		4	1	3
	PC7.	maintain the etiquette, use polite language, demonstrate responsible and		3	1	2





	disciplined behaviors to the colleagues		,		
PC8.	interact with colleagues from different departments: ripening chamber, cold storage, transport, packhouse etc to effectively carry out the work among the team and understand the nature of their work; put team over individual goals and multi task or share work where necessary supporting the colleagues; work with cooperation, coordination, communication and collaboration, with shared goals and supporting each others performance		3	1	2
PC9.	ask relevant questions to the client and identify their needs; brief the client clearly on potential costs and challenges involved in the cold chain industry		4	2	2
PC10.	possess strong knowledge on market and cold chain operation		4	2	2
PC11.	communicate with the client in a polite, professional and friendly manner; build effective but impersonal relationship with the client; ensure the appropriate language and tone are used with clients; listen actively and have a two way communication; be sensitive to the gender, cultural and social differences such as modes of greeting, formality, etc.; maintain a positive, sensible and cooperative manner all time; ensure to maintain a proper body language, dress code, gestures and etiquettes towards the client; avoid interrupting the client while they talk		6	2	4
PC12.	understand the client expectations correctly and provide the appropriate products and services; understand the client dissatisfaction and address or escalate their complaints effectively; ensure to avoid negative questions and statements to the client; ensure to respond back to the client immediately for their voice messages, e-mails, apps, etc.; develop good rapport with the client and promote other products and services; inform the client on any issues or problems before hand and also on the developments involving them; seek feedback from the client on their understanding to what was discussed		6	2	4
PC13.	explain the terms and conditions clearly	1	2	1	1
POINTS			50	20	30
TOTAL	POINTS			5	0





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	GRAND TOTAL	300		