



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: Cold Chain Process Management Specialist

SECTOR: LOGISTICS

SUB-SECTOR: Cold Chain Logistics

OCCUPATION: Projects

REFERENCE ID: LSC/Q8601

ALIGNED TO: NCO-2015/ NIL

Brief Job Description: The individual at work performs market and product demand-supply assessment for cold storage, prepares project execution and cost plan, designs plant layout, manages project execution of cold storage, select vendors and maintains relationship that is strategic to business and commissions the cold storage.

Personal Attributes: The job requires the individual to have: attention to details, ability to sit and stand at one place for a long time, physical fitness to tolerate temperature difference in and outside cold storage, sun heat, and noise.





Qualifications Pack For Cold Chain Process Management Specialist

Qualifications Pack Code	LSC/Q8601		
Job Role	Cold Chain Process Management Specialist		
Credits(NSQF)	TBD	Version number	1.0
Sector	Logistics	Drafted on	08/08/16
Sub-sector	Cold chain logistics	Last reviewed on	04/05/19
Occupation	Projects	Next review date	04/05/22
NSQC Clearance on		NA	

Job Role	Cold Chain Process Management Specialist 'Also Known as Head-Project Management Solutions, Commissioning/Modernization Specialist'		
Role Description	The Cold Chain Process Management specialist is responsible for planning, designing, installing, operating and maintaining cold storage facility		
NSQF Minimum Educational Qualifications Maximum Educational Qualifications	5 Graduate in engineering/ food technology/ pharmacy (or) Diploma in engineering/ food technology/ pharmacy 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 with 2 years of experience in cold storage operations		
Applicable National Occupational Standards (NOS)	 Compulsory: LSC/N8601 Assess production and plan for setting-up cold storage plant LSC/8602 Design cold storage layout and prepare project costing LSC/N8603 Execute and implement cold storage project LSC/N8604 Manage vendor and maintain relationship LSC/N8605 Test and commission cold storage plant LSC/N9901 Maintain food and personnel safety, health and hygiene in cold storage plant LSC/N9902 Communicate effectively with colleagues and clients 		
Performance Criteria	As described in the relevant OS units		





Qualifications Pack For Cold Chain Process Management Specialist

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.





Qualifications Pack For Cold Chain Process Management Specialist

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

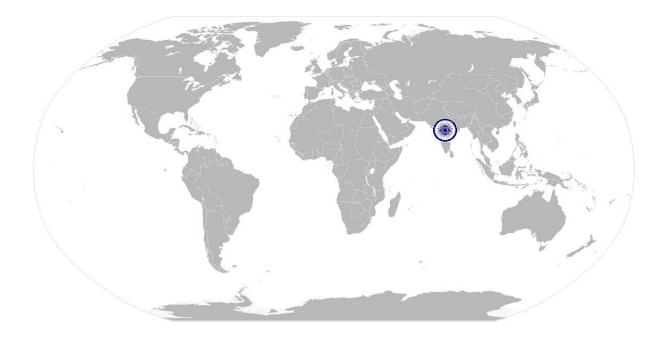






Assess production and plan for setting-up cold storage plant

National Occupational Standard



Overview

This unit is about understanding and analysing client requirements, assessing market demand, defining project timeline and preparing for project execution and management.







LSC/N8601 Assess production and plan for setting-up cold storage plant

Unit Code	LSC /N8601		
Unit Title (Task)	Assess production and plan for setting-up cold storage plant		
Description	This OS unit is about understanding and analysing client requirements, assessing market demand, defining project timeline and preparing for project execution and management		
Scope	This unit/task covers the following:		
	Gather client requirements		
	Assess production demand		
	Prepare for project execution and management		
	Range: Refrigeration unit, Evaporating unit, Condenser, Compressor, programmable logic controller equipment, packaging lines, dock levelers, advanced graders, stacking system, MS Office Software		
Performance Criteria(PC) w.r.t. the Scope			
Element	Performance Criteria		
Gathering client	To be competent, the user/individual must be able to:		
requirements	PC1. seek appointment and schedule meeting with client PC2. understand and gather client requirements on type of products (Horticulture,		
	Dairy, Poultry, Marine, Processed food), facility (manual, semi-automated and automated) and services (warehouse and transport)		
	PC3. analyse client requirements and document requirements which are clear,		
	unambiguous and feasible for the project as per company's standards		
	PC4. share the project's requirement document with the client		
	PC5. make necessary changes in the project's requirement document as suggested by client		
	PC6. take sign-off from client		
Assessing production	To be competent, the user/ individual must be able to: -		
demand	PC7. visit site and assess proximity of cold storage location from market and agricultural fields		
	PC8. check power availability, potable water availability and road access at the location		
	PC9. determine sample size for accurate results		
	PC10. use quantitative and qualitative research techniques to collect data on		
	products, seasonality of products, product demand etc		
	PC11. perform secondary research on products, seasonality of products, product demand etc		
	PC12. analyse information gathered from primary and secondary research		
	PC13. assess demand-supply of products		
	PC14. select products on various factors like profitability, market demand, cost of		
	production and transport etc		
	PC15. assess capacity of cold storage to meet present and future demand		



N·S·D·C National Skill Development Corporation

National Occupational Standards

LSC/N8601	Assess production and plan for setting-up cold storage plant
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	PC16. prepare and share market research and assessment report with client		
Preparing for project	To be competent, the user/ individual must be able to:		
execution and	PC17. define project milestones and timelines for project activities: design, project		
management	costing, implementation, testing and maintenance, and consulting fees		
J	PC18. prepare communication plan, project execution plan and quality management		
	plan		
	PC19. assess risk and prepare plan for risk managment		
	PC20. take sign-off from client to start the project		
Knowledge and Unders			
A. Organizational	The individual on the job needs to know and understand: -		
Context	KA1. vision, mission and values of the company		
(Knowledge of the	KA2. business and performance of the company		
company /	KA3. organisation structure of the company to have better understanding of		
• •	various departments and skills set present in the company		
organization and	KA4. knowledge repository and various projects done by the company		
its processes)	KA5. reporting structure to support and expedite project acivities		
	KA6. company's policy and work instructions on quality standards		
	KA7. company's policy on procurement and vendor mananagement		
	KA8. company's personnel management and incentives rules		
	KA9. importance of the individual's role in the workflow		
	KA10. occupational health and safety standards		
	KA11. company's policy on business ethics and code of conduct		
B. Technical	The individual on the job needs to know and understand:		
Knowledge	KB1. materials, equipments and machinery required for cold storage construction		
	KB2. components of modernization: programmable logic controller equipment,		
	packaging lines, dock levelers, advanced graders, alternate technologies,		
	stacking system, modernization of insulation and refrigeration etc		
	KB3. project management terminologies: Work breakdown structure(WBS),		
	Network diagram, slack, lag etc		
	KB4. project management methodology		
	KB5. types of market research techniques: quantitative and qualitative		
	KB6. secondary data collection methods		
	KB7. data analysis techniques: factor, discriminant, cluster etc		
	KB8. types of forecasting techniques		
	KB9. tools for project management and documentation: MS Project, MS excel, MS		
	visio, MS PowerPoint, MS Word		
	KB10. cold chain operation		
	KB11. business engineering design		
	KB12. arithmetic and geometry		
	KB13. basics of statistics: sample size, confidence interval, confidence level,		
	standard of deviation		
Skills (S)			
A. Core Skills/	Reading Skills		
	The user/individual on the job needs to know and understand how to:		
	SA1. read company's work instructions, customer requirement and quality policy		



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National Occupational Standards

LSC/N8601 Assess production and plan for setting-up cold storage plant

Generic Skills	SA2. read detailed project and market research reports SA3. search and read information online for market research		
	Writing Skills		
	The user/individual on the job needs to know and understand how to:		
	SA4. maintain the record of job completed as per company's policy		
	SA5. prepare project related documents		
	SA6. write business emails Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to: SA7. communicate with seniors to report on any issues or delay in approvals		
	SA8. interact with other departments and team members to work efficiently		
B. Professional Skills	Decision Making		
D. FIOICSSIONAL SKINS			
	The user/individual on the job needs to know and understand how to:		
	SB1. decide cold storage capacity SB2. decide market research approach and methodology		
	SB3. decide project duration and milestones to achieve		
	SB4. decide project team		
	SB5. decide what documents to be shared with the client required for the		
	implementation and commissioning of the project		
	Plan and Organize		
	ç		
	The user/individual on the job needs to know and understand how to: SB6. schedule and plan for meeting the target		
	SB7. plan and organise activities for market research and project management		
	documentation		
	Customer Centricity		
	The user/individual on the job needs to know and understand how to:		
	SB8. ensure completion of work as per schedule and budget		
	SB9. answer queries from client promptly		
	SB10. schedule meeting and maintain proper communication plan to keep the client		
	aware of progress		
	Problem Solving		
	The user/individual on the job needs to know and understand how to:		
	SB11. keep contigent plan ready incase of any deviation from plan		
	Analytical		
	The user/individual on the job needs to know and understand how to:		
	SB12. estimate project timelines and schedule		
	SB13. assess inputs gathered from primary and secondary research		
	SB14. asses market demand		
	Critical		
	The user/individual on the job needs to know and understand how to:		
	SB15. meet target to gather inputs from people equal to or more than sample		
	number in a given project timeframe		







LSC/N8601 Assess production and plan for setting-up cold storage plant

SB16. convince people to participate in primary research excercise so that market
research can be completed as per the schedule





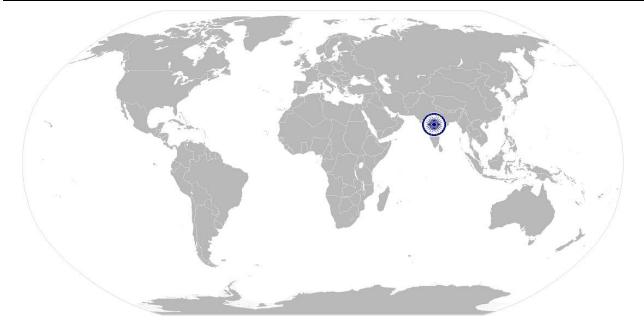




LSC/N8601 Assess production and plan for setting-up cold storage plant

NOS Version Control

NOS Code	LSC/N8601		
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	08/08/16
Industry Sub-sector	Cold chain logistics	Last reviewed on	04/03/19
Occupation	Projects	Next review date	04/03/22



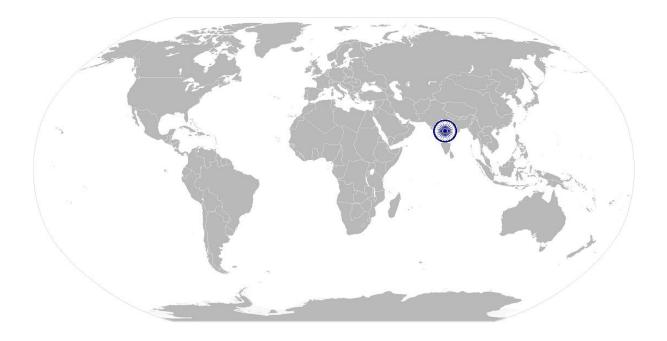






2 Design cold storage plant layout and prepare project costing

National Occupational Standard



Overview

This unit is about visiting and assessing site to design layout of the plant, sharing plan and drawings of cold storage plant as per client's requirements and calculating cost of the project.



National Occupational Standard





LSC/N8602 Design cold storage plant layout and prepare project costing

Unit Code	LSC /N8602	
Unit Title (Task)	Design cold storage plant layout and prepare project costing	
Description	This OS unit is about visiting and assessing site to design layout of the plant, sharing plan and drawings of cold storage plant as per client's requirements and calculating cost of the project	
Scope	 This unit/task covers the following: Design plant layout Calculate project cost 	
	Range: Refrigeration unit, Evaporating unit, Condenser, Compressor, programmable logic controller equipment, packaging lines, dock levelers, advanced graders, stacking system, MS Office Software, CAD, 3D Max SketchUp, STAAD pro and CRO pro	
Performance Criteria	a(PC) w.r.t. the Scope	
Element	Performance Criteria	
Designing plant layout	 To be competent, the user/ individual must be able to: - PC1. visit site and assess proposed site surroundings for designing purpose PC2. assess space available for refrigeration, equipment, machinery, elevator, stairs, offices, circulation and facility for loading and unloading materials PC3. analyse functional flow and goods movement (cold rooms, warehouse, loading and unloading facility, washing, grading, ripening chamber, packhouse as per client's requirement) PC4. design corridor or circulation space and fit facilities around it PC5. prepare plan depending on the cold storage operations, offices, parking area etc. PC6. share concept plan, floor plan, 3D, structural and working drawing with the client PC7. calculate product load of the products stored in the cold storage PC8. perform heat-load calculations for measurements of walls, floors, ceillings, equipments etc PC9. calculate size of the compressor PC10. determine number of storeys and room sizes depending on type of product, temperature and humidity requirement, storage capacity, manpower and fork lift movement etc PC11. calculate area and thickness of insulation PC12. Determine cold storage refrigerant depending on size of chambers, location, targeted power saving, refrigerated technology selected etc. 	
Calculating project cost	 PC13. take sign-off from client To be competent, the user/ individual must be able to: PC14. determine land, machinery and miscellaneous assets (furniture and fixtures) cost PC15. determine and list down all required part assemblies, their parts, quantity and unit of measure 	



NOS National Occupational Standards



LSC/N8602 Design cold storage plant layout and prepare project costing

	PC16. add up cost of all the parts in each assembly and calculate total
	PC17. determine labour required for the construction and labour cost
	PC18. calculate administrative, survey, analysis and other preliminary expenses
	PC19. calculate testing, commissioning and maintenance cost
	PC20. calculate project cost by adding up all expenses and cost incurred
Knowledge and Unders	standing (K)
A. Organizational	The individual on the job needs to know and understand:
Context	KA1. vision, mission and values of the company
(Knowledge of the	KA2. business and performance of the company
	KA3. organisation structure of the company to have better understanding of
company /	various departments and skills set present in the company
organization and	KA4. standard costing and budgeting processes
its processes)	KA5. knowledge repository and various projects done by the company
	KA6. reporting structure to support and expedite project acivities
	KA7. company's policy and work instructions on quality standards
	KA8. company's policy on procument and vendor mananagement
	KA9. company's personnel management and incentives rules
	KA10. importance of the individual's role in the workflow
	KA11. occupational health and safety standards
	KA12. company's policy on business ethics and code of conduct
B. Technical	The individual on the job needs to know and understand: -
Knowledge	KB1. designing tools: CAD, 3D Max SketchUp, STAAD pro and CRO pro
Kilowieuge	KB2. design scales
	KB3. how to draw concept plan, working drawing, floor plan, final plan and 3D
	drawing
	KB4. heat-load calculation formula
	KB5. product load calculation formula
	KB6. formula for calculating area and thicknes of insulation
	KB7. compressor size calculation formula
	KB8. architectural norms and standards
	KB10. cooling technology: Diffuser, Gravity cooling and overhead pump feed type
	KB11. materials, equipments and machinery required for cold storage construction
	KB12. components of modernization: programmable logic controller equipment,
	packaging lines, dock levelers, advanced graders, alternate technologies,
	stacking system, modernization of insulation and refrigeration, cold storage
	refrigerant etc
	KB13. tools for documentation: MS excel and MS Word
	KB14. cold chain operation
	KB15. business engineering design
Skills (S)	KB16. arithmetic and geometry
	Peoding Skills
A. Core Skills/	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA1. read company's work instructions, customer requirement and quality policy







LSC/N8602 Design cold storage plant layout and prepare project costing

Generic Skills	SA2. read concept, working and final design plan, 3D and structural drawing					
	SA3. read instructions while using software tools					
	SA4. read project report					
	Writing Skills					
	The user/individual on the job needs to know and understand how to:					
	SA5. maintain the record of job completed as per company's policy					
	SA6. prepare concept, working and final design plan, 3D and structural drawing					
	SA7. write business emails					
	Oral Communication (Listening and Speaking skills)					
	The user/individual on the job needs to know and understand how to:					
	SA8. communicate with seniors to report on any issues or delay in approvals					
	SA9. interact with other departments and team members to work efficiently					
B. Professional Skills	Decision Making					
	The user/individual on the job needs to know and understand how to:					
	SB1. decide parts, materials, machinery required for constructing cold storage plant					
	SB2. decide scale for presenting design plans					
	Plan and Organize					
	The user/individual on the job needs to know and understand how to:					
	SB3. schedule and plan for meeting the target					
	SB4. procure required software application and get them installed before the					
	commencement of designing activity					
	Customer Centricity					
	The user/individual on the job needs to know and understand how to:					
	SB5. ensure completion of work as per schehdule and budget					
	SB6. answer queries from client promptly					
	SB7. schedule meetings and maintain proper communication plan to keep the client					
	aware of progress					
	Problem Solving					
	The user/individual on the job needs to know and understand how to:					
	SB8. troubleshoot basic software problems					
	SB9. keep contigent plan ready incase of any deviation from plan					
	Analytical					
	The user/individual on the job needs to know and understand how to:					
	SB10. estimate project cost without errors					
	Critical					
	The user/individual on the job needs to know and understand how to:					
	SB11. optimise processes and reduce wastage of goods during movement from one					
	facility to the other					
	SB12. complete designing activity on time without compromising on creativity					

NOS Version Control







LSC/N8602 Design cold storage plant layout and prepare project costing

NOS Code	LSC/N8602					
Credits(NSQF)	TBD Version number 1.0					
Industry	Logistics Drafted on 08/08/16					
Industry Sub-sector	Cold chain logistics Last reviewed on 04/03/19					
Occupation	Projects	Next review date	04/03/22			



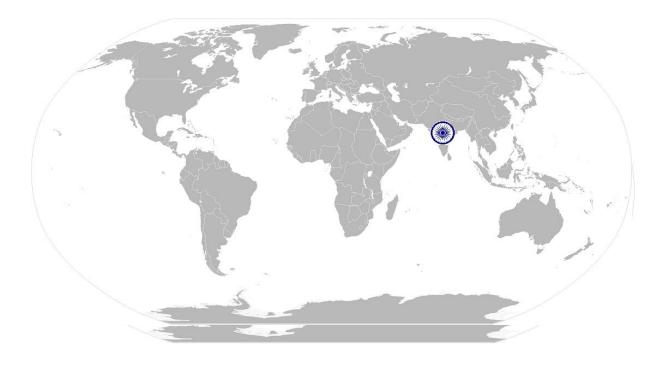






Execute and implement cold storage project

National Occupational Standard



Overview

This unit is about assigning tasks to team members, issuing materials for construction to concerned person or department, monitoring project related activities, tracking and documenting progress.



National Occupational Standard



LSC/N8603	Execute and implement cold storage project				
Unit Code	LSC /N8603				
Unit Title (Task)	Execute and implement cold storage project				
Description	This OS unit is about assigning tasks to team members, issuing materials for construction to concerned person or department, monitoring project related activities, tracking and documenting progress				
Scope	This unit/task covers the following:				
	Manage material and human resources				
	Track and monitor activities				
	Report and document activities				
	Range: Refrigeration unit, Evaporating unit, Condenser, Compressor, programmable logic controller equipment, packaging lines, dock levelers, advanced graders, stacking system, Enterprise resource planning software (ERP), MS Office Software, CAD, 3D Max SketchUp, STAAD pro and CRO pro				
Performance Criteria(F	PC) w.r.t. the Scope				
Element	Performance Criteria				
Managing material and human resource	 To be competent, the user/ individual must be able to: PC1. refer detailed project report project execution plan and prepare detailed project construction plan PC2. break down project execution activities to everyday tasks PC3. take print out of tasks to be performed everyday PC4. assign tasks to team members PC5. take construction requirements from stakeholders PC6. issue materials as per requirement and availability PC7. handle grievances of team members and labourers 				
Tracking and monitoring of activities	 To be competent, the user/ individual must be able to: PC8. conduct status meetings PC9. record minutes of meeting and follow up PC10. keep a track on expenses incurred and manhours utilized PC11. keep a track on how much quantity of raw materials etc are ordered and utililized PC12. take a round of the premises and inspect the site PC13. ensure issued materials, equipments, machinery etc are used for construction PC14. track and monitor activities to ensure tasks' completion on time PC15. escalate any non-completion of task or comprise on quality to concerned authority 				
Reporting and documenting activities	 To be competent, the user/ individual must be able to: PC16. share detailed project report consisting of details on project team, project execution, quality management, risk management, stakeholder and communication management with the client as per company's standards PC17. document expenses incurred and manhours utilized PC18. report to client and seniors about the progress of the project 				







Execute and implement cold storage project

	Execute and implement cold storage project
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. vision, mission and values of the company KA2. business and performance of the company KA3. organisation structure of the company to have better understanding of various departments and skills set present in the company KA4. knowledge repository and various projects done by the company KA5. reporting structure to support and expedite project acivities KA6. company's policy and work instructions on quality standards KA7. company's policy on procument and vendor mananagement KA8. company's personnel management and incentives rules KA9. importance of the individual's role in the workflow KA10. occupational health and safety standards KA11. company's policy on business ethics and code of conduct
B. Technical Knowledge	 KA12. fire Policy from any insurance company as per Company's Policy The individual on the job needs to know and understand: - KB1. tools for project management and documentation: MS Project, MS excel, MS visio, MS PowerPoint, MS Word KB1. project management process and related terminologies KB2. insurance for plant and machinery during erection and commissioning application of principles of refrigeration KB4. materials, equipments and machinery requirements for cold storage construction activities KB5. components of modernization: programmable logic controller equipment, packaging lines, dock levelers, advanced graders, alternate technologies, stacking system, modernization of insulation and refrigeration etc KB6. interpreting concept plan, working drawing, floor plan, final plan and 3D drawing KB7. cold storage operation KB8. business engineering design KB9. bills of materials (BOM)
Skills (S)	
A. Core Skills/ Generic Skills	Reading SkillsThe user/individual on the job needs to know and understand how to:SA1. read company's work instructions, customer requirement and quality policySA2. read concept, working and final design plan, 3D and structural drawingSA3. read project report and other project related documentsWriting Skills
	The user/individual on the job needs to know and understand how to: SA4. maintain the record of job completed as per company's policy SA5. document day-to-day progress in project and daily expenses incurred SA6. write business emails SA7. write minutes of meeting SA8. write down observations related to project execution on the site







LSC/N8603	Execute and implement cold storage project					
	Oral Communication (Listening and Speaking skills)					
	The user/individual on the job needs to know and understand how to:					
	SA9. communicate with seniors to report on any issues or delay in approvals					
D. Duefersienel Chille	SA10. interact with other departments and team members to work efficiently					
B. Professional Skills	Decision Making					
	The user/individual on the job needs to know and understand how to:					
	SB1. decide and assign responsibilites to team members					
	SB2. select the required amount of materials, equipments and machinery for					
	construction					
	Plan and Organize					
	The user/individual on the job needs to know and understand how to:					
	SB3. schedule and plan for meeting the target					
	SB4. decide order of completion of tasks					
	SB5. arrange required materials, workforce and machinery as per quantity					
	mentioned and keep them ready before commencement of any construction					
	activity					
	Customer Centricity					
	The user/individual on the job needs to know and understand how to:					
	SB6. ensure completion of work as per schehdule and budget					
	SB7_ answer queries from client promptly					
	SB8. schedule meeting and maintain proper communication plan to keep the client aware of progress					
	Problem Solving					
	The user/individual on the job needs to know and understand how to:					
	SB9. solve issues related to workforce, material, machine, etc.					
	SB10. keep contigent plan ready incase of any deviation from plan					
	Analytical					
	The user/individual on the job needs to know and understand how to:					
	SB11. estimate requirement of materials, parts, equipment, machinery etc					
	SB12. optimise operations to reduce turn-around time and cost					
	SB13. assess risk and take appropriate action					
	Critical					
	The user/individual on the job needs to know and understand how to:					
	SB14. make sure team members and construction workers follow safety instructions					
	to avoid any accident at construction site					







Execute and implement cold storage project

NOS Version Control

NOS Code	LSC/N8603					
Credits(NSQF)	TBD Version number 1.0					
Industry	Logistics Drafted on 08/08/16					
Industry Sub-sector	Cold chain logistics Last reviewed on 04/03/19					
Occupation	Projects Next review date 04/03/22					









Manage vendor and maintain relationship

National Occupational Standard



Overview

This unit is about selecting and working with vendors meeting project requirements, negotiating contracts, evaluating performance and maintaining relationship with vendors.







LSC/N8604	Manage vendor and maintain relationship				
Unit Code	LSC /N8604				
Unit Title (Task)	Manage vendor and maintain relationship				
Description	This OS unit is about selecting and working with vendors meeting project requirements, negotiating contracts, evaluating performance and maintaining relationship with vendors				
Scope	This unit/task covers the following:				
	Assess and select new vendors				
	Work with vendors				
	Evaluate performance of vendors				
	Establish relationship with vendors				
	Range: Refrigeration unit, Evaporating unit, Condenser, Compressor, programmable logic controller equipment, packaging lines, dock levelers, advanced graders, stacking system, Enterprise resource planning software (ERP), MS Office Software				
Performance Criteria(PC) w.r.t. the Scope				
Element	Performance Criteria				
Assessing and	To be competent, the user/ individual must be able to:				
selecting new vendors	 PC1. search for possible vendors meeting project requirements PC2. use appropriate tendering processes to receive proposals from vendors PC3. assess and evaluate proposals submitted by vendors PC4. call vendors for presentation or query session PC5. select the most suitable vendor as per company's evaluation criteria PC6. negotiate and manage contract, Statement of work(SOW), service level agreement(SLA) etc with the vendor 				
Working with	To be competent, the user/ individual must be able to:				
vendors	 PC7. prepare a list of materials, equipments,machinery etc PC8. send purchase order to vendors as per company's standards (email or courier) PC9. receive invoice from vendors against the purchase order PC10. receive and inspect the shipment PC11. release payments to vendors as per the bills raised and contract signed 				
Evaluating	To be competent, the user/ individual must be able to:				
performance of vendors	 PC12. record and evaluate performance of vendors on factors like quality of service, on-time order completion, quality of material, client satisfaction, call answer time PC13. perform analysis on recorded information and take corrective measures to improve performance of vendors 				
Establishing	To be competent, the user/ individual must be able to:				
relationship with vendors	 PC14. inform and give purchase orders to respective vendors in advance, so that necessary materials, machinery etc are available at the commencement of construction activity PC15. release payments to vendors on time 				
	PC16. conduct review meetings				

22







LSC/N8604				
	PC17. understand and resolve vendor concerns and issues			
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. vision, mission and values of the company KA2. business and performance of the company KA3. organisation structure of the company to have better understanding of various departments and skills set present in the company KA4. knowledge repository and various projects done by the company KA5. reporting structure to support and expedite project acivities KA6. company's policy and work instructions on quality standards KA7. company's policy on procument and vendor mananagement KA8. company's personnel management and incentives rules KA9. importance of the individual's role in the workflow KA10. occupational health and safety standards KA11. company's policy on business ethics and code of conduct 			
B. Technical Knowledge	 The individual on the job needs to know and understand: KB1. vendor management process KB2. factors for evaluation of performance of vendors KB3. procurement related terminologies: Purchase order (PO), Invoice etc KB4. about contract management, SLA and SOW KB5. using enterprise resource planning software (ERP) KB6. procurement process KB7. tools for documentation: MS excel and MS Word KB8. materials, equipments and machinery required for cold storage construction KB9. components of modernization: programmable logic controller equipment, packaging lines, dock levelers, advanced graders, alternate technologies, stacking system, modernization of insulation and refrigeration etc KB10. value chain of cold chain segment KB11. bills of materials (BOM) 			
Skills (S)	KB11. bills of materials (BOM)			
	Des dies Chille			
A. Core Skills/ Generic Skills	Reading SkillsThe user/individual on the job needs to know and understand how to:SA1. read company's work instructions, customer requirement and quality policySA2. read project reportSA3. read contracts, SLA and SOWSA4. read PO and InvoiceSA5. read and understand vendors' performance analysis reportWriting Skills			
	 The user/individual on the job needs to know and understand how to: SA6. maintain the record of job completed as per company's policy SA7. record information about vendors on factors like quality of service,on-time order completion, quality of material, client satisfaction, call answer time etc SA8. write PO and Invoice SA9. write understand vendors' performance analysis report SA10. write business emails 			







LSC/N8604	Manage vendor and maintain relationship			
	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and understand how to: SA11. communicate with seniors to report on any issues or delay in approvals SA12. interact with other department, team members and vendors to work efficiently SA13. carefully listen vendor concerns and issues			
B. Professional Skills	Decision Making			
	The user/individual on the job needs to know and understand how to: SB1. select vendors meeting project requirements SB2. inspect shipment and decide on accepting or rejecting order SB3. decide on corrective measures to improve performance of vendors Plan and Organize			
	The user/individual on the job needs to know and understand how to: SB4. schedule and plan for meeting the target SB5. arrange for materials, workforce and machinery requirement in advance SB6. plan and organise review meetings with vendors Customer Centricity			
	 The user/individual on the job needs to know and understand how to: SB7. ensure completion of work as per schedule and budget SB8. answer queries from client promptly SB9. schedule meeting and maintain proper communication plan to keep the client aware of progress 			
	Problem Solving			
	The user/individual on the job needs to know and understand how to: SB10. resolve issues related to vendors ,materials, machinery, etc. SB11. keep contigent plan ready incase of any deviation from plan			
	Analytical			
	The user/individual on the job needs to know and understand how to: SB12. select and evaluate vendors on project relevant factors SB13. evaluate vendors on performance criteria relevant to project and business Critical			
	The user/individual on the job needs to know and understand how to: SB14. develop and maintain good and strategic relationship with vendors			







Manage vendor and maintain relationship

NOS Version Control

NOS Code	LSC/N8604						
Credits(NSQF)	TBD Version number 1.0						
Industry	Logistics Drafted on 08/08/16						
Industry Sub-sector	Cold chain logistics Last reviewed on 04/03/19						
Occupation	Projects Next review date 04/03/22						



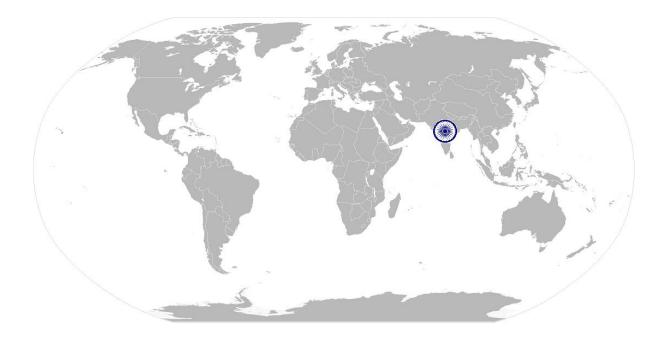






Test and commission cold storage plant

National Occupational Standard



Overview

This unit is about creating testing scenarios to test equipments, machinery and operations of cold storage, escalating issues and following up with the concerned person to resolve open issues and commissioning of cold storage plant







Test and	commission	cold	storage	plant
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Unit Code	LSC /N8605		
Unit Title (Task)	Task) Test and commission cold storage plant		
Description	This OS unit is about creating testing scenerios to test equipments, machinery and operations of cold storage-, escalating issues and following up with the concerned person to resolve open issues and commissioning of cold storage plant		
Scope	This unit/task covers the following:		
	Test cold storage plant		
	Commission cold storage plant		
	Range: Refrigeration unit, Evaporating unit, Condenser, Compressor, programmable logic controller equipment, packaging lines, dock levelers, advanced graders, stacking system, MS Office Software, Cold storage testing equipments like electronic leak		
	detector, multimeter etc		
Performance Criteria			
Element	Performance Criteria		
Testing cold storage plant	 To be competent, the user/ individual must be able to: PC1. check internal and external joints, panels and vapour seals PC2. ensure no voids and gaps in the insulation PC3. ensure proper fitting of doors and door heaters PC4. confirm thermal conductivity of the insulation material fall within the range specified by the supplier or ISO/FDIS 4898 PC5. test refrigeration sytem is functioning as per company's standards PC6. make certain that cold rooms are operating and maintaining defined temperature PC7. make certain proper functionality of control panel PC8. make sure proper ventillation in cold rooms and ripening chambers PC9. make sure proper installation of generator/s and electricity supply is in the plant PC10. ensure seamless flow of materials from one facility to the other PC11. check rack system is in place and able to take products as well as labour load PC12. check fire and emergency alarm PC13. escalate issues or defects to stakeholders PC14. follow up and resolve issues 		
Commissioning ofTo be competent, the user/ individual must be able to: -			
cold storage plant	PC15. prepare schedule for commissioning activities		
	PC16. assign responsibilities to team members		
PC17. create test scenarios for each stage of the process PC18. determine success and failure of any test scenario			
PC19. escalate failure of test scenario to stakeholders, resolve and re			
	PC20. conduct drill successfully		
	PC21. ensure safety mechanisms are in place		
	PC22. perform client training and demonstrations		



NOS National Occupational Standards



LSC/N8605

Test and commission cold storage pla

	 PC23. obtain statutory approvals and insurance approvals PC24. ensure maintenance of refrigeration system, machinery, equipments etc as per contract
Knowledge and Unders	
A. Organizational Context (Knowledge of the company / organization and its processes)	 The individual on the job needs to know and understand: KA1. vision, mission and values of the company KA2. business and performance of the company KA3. organisation structure of the company to have better understanding of various departments and skills set present in the company KA4. knowledge repository and various projects done by the company KA5. reporting structure to support and expedite project acivities KA6. company's policy and work instructions on quality standards KA7. company's policy on procurement and vendor mananagement KA8. company's personnel management and incentives rules KA9. importance of the individual's role in the workflow
P. Tachnical	 KA10. occupational health and safety standards KA11. company's policy on business ethics and code of conduct KA12. 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. categories of cold storages to determine technical standards KB2. types of testing: component testing, performance testing etc KB3. about statutory approvals and insurance approvals required for the operation of cold storage KB4. process and procedure to be followed to obtain statutory approvals and insurance approvals required for the operation of cold storage KB5. how to conduct fire drill KB6. equipments required for testing KB7. components of modernization: programmable logic controller equipment, packaging lines, dock levelers, advanced graders, alternate technologies, stacking system, modernization of insulation and refrigeration etc KB8. tools for project management and documentation: MS Project, MS excel, MS visio, MS PowerPoint, MS Word KB9. project management terminology: Work breakdown structure(WBS), Network diagram, slack, lag etc KB10. project management methodology KB11. principles of refrigeration KB12. cold chain operation KB13. business engineering design
A. Core Skills/	Reading Skills
Generic Skills	The user/individual on the job needs to know and understand how to: SA1. read company's work instructions, customer requirement and quality policy SA2. read project report SA3. read test scenarios



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LSC/N8605

Test and commission cold storage plant

Writing Skills				
	The user/individual on the job needs to know and understand how to:			
	SA4. maintain the record of job completed as per company's policy			
	SA5. prepare test scenarios and document results			
	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and understand how to:			
	SA6. communicate with seniors to report on any issues or delay in approvals			
	SA7. interact with other department, team members and vendors to work			
	efficiently			
B. Professional Skills	Decision Making			
	The user/individual on the job needs to know and understand how to:			
	SB1. determine success and failure of test scenario			
	SB2. decide on commissioning activities and the commissioning team			
	SB3. decide plant is functioning as per company's standards and is ready to			
	handover			
	Plan and Organize			
	The user/individual on the job needs to know and understand how to:			
	SB4. schedule and plan for meeting the target			
	SB5. plan and organise testing and commissioning activities in an appropriate order			
	Customer Centricity			
	The user/individual on the job needs to know and understand how to:			
	SB6. ensure completion of work as per schehdule and budget			
	SB7. answer queries from client promptly			
	SB8. schedule meeting and maintain proper communication plan to keep the client			
	aware of progress			
	Problem Solving			
	The user/individual on the job needs to know and understand how to:			
	SB9. keep contigent plan ready incase of any deviation from plan			
	SB10. follow up and resolve open issues			
	Analytical			
	The user/individual on the job needs to know and understand how to:			
	SB11. differentiate defects based on high, medium and low priority			
	SB12. optimise operations to reduce turn-around time and cost			
	Critical			
	The user/individual on the job needs to know and understand how to:			
	SB13. resolve issues or defects without disturbing other functions			

NOS Version Control

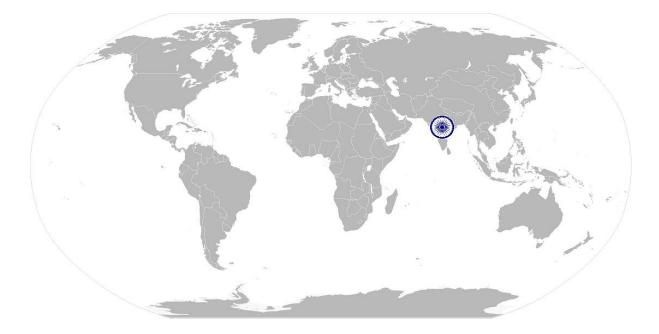






Test and commission cold storage plant

NOS Code	LSC/N8605		
Credits(NSQF)	TBD	Version number	1.0
Industry	Logistics	Drafted on	08/08/16
Industry Sub-sector	Cold chain logistics	Last reviewed on	04/03/19
Occupation	Projects	Next review date	04/03/22



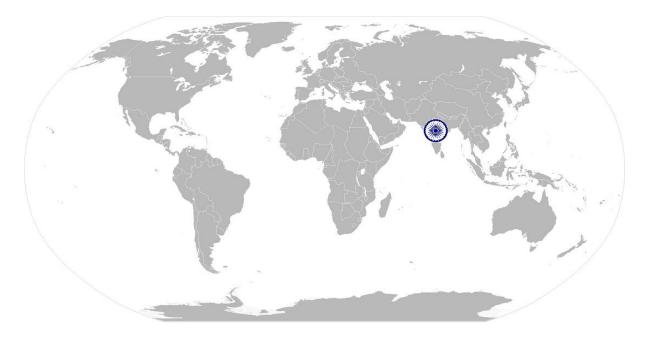






LSC/N9901 Maintain food and personnel safety, health and hygiene in cold storage plant

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.







LSC/N9901	Maintain food and personnel safety, health and hygiene in cold storage
	plant

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	Unit Code	LSC/N9901		
	Unit Title (Task)	Maintain food and personnel safety, health and hygiene in cold storage plant		
	Description	This OS unit is about complying with safety, health and hygiene at the workplace to 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 		
	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, frostby getc		
		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		
	· · ·	accumulation of heat, condensation or odours		
invertie procedures		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		
		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		







LSC/N9901 Maintain food and personnel safety, health and hygiene in cold storage plant

	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, boils 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 (
Knowledge and Under	standing (K)			
A. Organizational	The individual on the job needs to know and understand:			
Context	KA1. company's HR policies on personnel management			
(Knowledge of the	KA2. company's reporting structure			
company /	KA3. occupational health and safety standards			
	KA4. cold storageplant inspection checklist			
organization and	KA5. company's sanitary standard operating procedures			
its processes)	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	The individual on the job needs to know and understand:			
Knowledge	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 ast 2006			
	KB4. food safety and standards act 2006KB5. reporting procedure or heirarchy for signs of damage and potential hazards			
	The second se			







LSC/N9901 Maintain food and personnel safety, health and hygiene in cold storage plant

	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 subordi			
	staff			
	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:			
	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:			
	The user/individual on the job needs to know and understand how to:			
	The user/individual on the job needs to know and understand how to:			
	SA4. fill up documentation related to health, safety and environmental standards,			
	SA4. fill up documentation related to health, safety and environmental standards, if required			
	SA4. fill up documentation related to health, safety and environmental standards, if requiredOral Communication (Listening and Speaking skills)			
	SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking 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, if required 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 			
	SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking 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, if required 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 			
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	 SA4. fill up documentation related to health, safety and environmental standards, if required 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 			
	 SA4. fill up documentation related to health, safety and environmental standards, if required 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 			
	 SA4. fill up documentation related to health, safety and environmental standards, if required 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 			
B. Professional Skills	 SA4. fill up documentation related to health, safety and environmental standards, if required 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	 SA4. fill up documentation related to health, safety and environmental standards, if required 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 Decision Making 			
B. Professional Skills	 SA4. fill up documentation related to health, safety and environmental standards, if required 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 Decision Making The user/individual on the job needs to know and understand how to: 			
B. Professional Skills	 SA4. fill up documentation related to health, safety and environmental standards, if required 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 Decision Making The user/individual on the job needs to know and understand how to: SB1. take preventive measures for the identified hazards 			
B. Professional Skills	 SA4. fill up documentation related to health, safety and environmental standards, if required 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 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 			
B. Professional Skills	 SA4. fill up documentation related to health, safety and environmental standards, if required 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 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 			
B. Professional Skills	 SA4. fill up documentation related to health, safety and environmental standards, if required 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 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 			







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

LSC/N9901 Maintain food a plant

SB4.	formalize and display evacuation plan at strategic locations		
Custom	ner Centricity		
The use	er/ 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		
Probler	Problem Solving		
The us	er/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		
Analyti	Analytical		
The us	er/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			
The us	er/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		





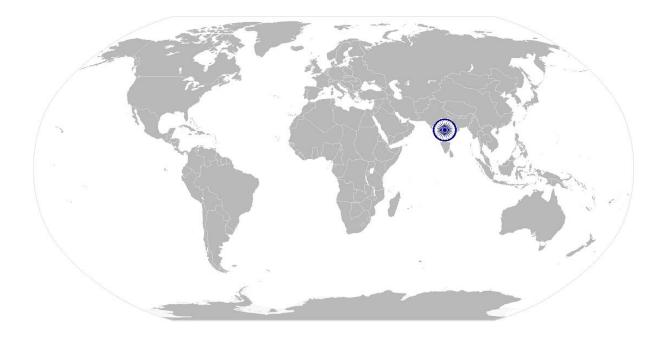




LSC/N9901 Maintain food and personnel safety, health and hygiene in cold storage plant

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	04/03/19
Occupation	Projects	Next review date	04/03/22





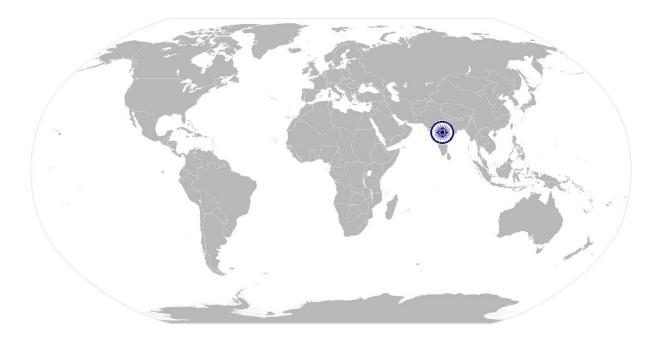




LSC/N9902

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 seniors
	Communicate with colleaguesCommunicate effectively with clients
Performance Criteria(PC) w.r.t. the Scope
Element	Performance Criteria
Interacting with	To be competent, the user/ individual must be able to:
seniors	PC1. understand the work output requirements, targets, performance indicators and
	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	To be competent, the user/ individual must be able to:
colleagues	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
	PC10. seek assistance from the coneagues when required a provide a
	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	To be competent, the user/ individual must be able to:
effectively with	PC18. ask relevant questions to the client and identify their needs
clients	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
	PC22. build effective but impersonal relationship with the client







LSC/N9902 (Communicate effectively with colleagues and clients
	 PC23. ensure the appropriate language and tone are used with clients PC24. listen actively and have a two way communication PC25. be sensitive to the gender, cultural and social differences such as modes of greeting, formality, etc. PC26. understand the client expectations correctly and provide the appropriate products and services PC27. understand the client dissatisfaction and address or escalate their complaints effectively PC28. maintain a positive, sensible and cooperative manner all time PC29. ensure to maintain a proper body language, dress code, gestures and etiquettes towards the client PC30. avoid interrupting the client while they talk PC31. ensure to avoid negative questions and statements to the client PC32. inform the client on any issues or problems before hand and also on the developments involving them PC33. ensure to respond back to the client immediately for their voice messages, emails, apps, etc. PC34. develop good rapport with the client and promote other products and services PC35. seek feedback from the client on their understanding to what was discussed PC36. explain the terms and conditions clearly
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. 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 KB7. how to practice effective listening and talking







LSC/N9902	Communicate effectively with colleagues and clients
	 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 senior to achieve smooth workflow SA6. communicate effectively with the chents 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 SB6. contribute to quality of team work and achieve smooth workflow

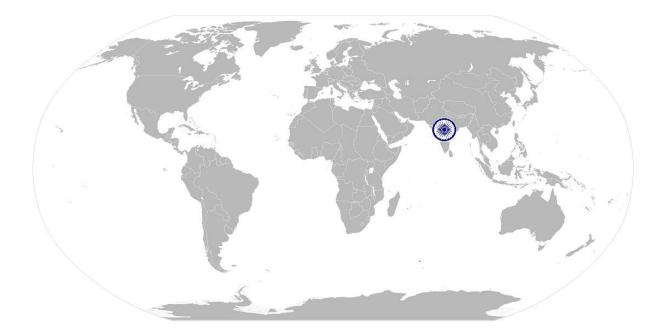






LSC/N9902 Communicate effectively with colleagues and clients

	 SB7. share work load as required SB8. delegate work in consultation with senior or as necessary instead of allowing work to pile up
	Analytical
-	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
-	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	04/03/19				
Occupation	Projects	Next review date	04/03/22				



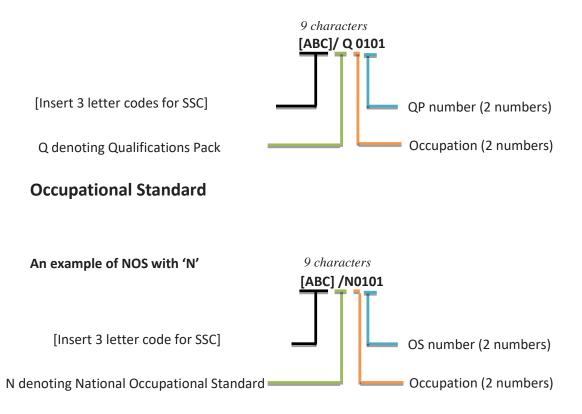




<u>Annexure</u>

Nomenclature for QP and NOS

Qualifications Pack



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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 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	Occupation code	01
Next two numbers	OS number	01





CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Commissioning/Modernization specialist

Qualification Pack LSC/Q8601

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

		Compulsory NO	S			
Total Marks 700		· · ·			Marks Alloca	ation
Assessment Outcome	As	ssessment Criteria for Outcomes	Total Marks	out of	Theory	Practical
	PC1.	seek appointment and schedule meeting with client		5	1	4
LSC/8601	PC2.	understand and gather client requirements on type of products (Horticulture, Dairy, Poultry, Marine, Processed food), facility (manual, semi-automated and automated) and services (warehouse and transport)		5	1	4
Assess production and plan for setting- up cold storage plant	PC3.	analyse client requirements and document requirements which are clear, unambiguous and feasible for the project as per company's standards	100	5	1	4
·	PC4.	share the project's requirement document with the client		5	1	4
	PC5.	make necessary changes in the project's requirement document as suggested by client		5	1	4
	PC6.	take sign-off from client	1	5	1	4
	PC7.	visit site and assess proximity of cold storage location from market		5	1	4





	-	,		/		
		and agricultural fields				
	PC8.	check power availability, potable				
		water availability and road access		5	1	4
		at the location				
	PC9.	determine sample size for		_	_	_
		accurate results		5	1	4
	PC10.	use quantitative and qualitative				
		research techniques to collect data		_		
		on products, seasonality of		5	1	4
		products, product demand etc				
	PC11.	perform secondary research on				
		products, seasonality of products,		5	1	4
		product demand etc				
	PC12.	analyse information gathered				
		from primary and secondary		5	1	4
		research				
	PC13.	assess demand-supply of products		5	1	4
	PC14.	select products on various factors	1			
		like profitability, market demand,				
		cost of production and transport		5	1	4
		etc				
	PC15.	assess capacity of cold storage to		_		
		meet present and future demand		5	1	4
	PC16.	prepare and share market				
		research and assessment report		5	1	4
		with client				
	PC17.	define project milestones and				
		timelines for project activities:				
		design, project costing,		5	1	4
		implementation, testing and				
		maintenance, and consulting fees				
	PC18.	prepare communication plan,				
		project execution plan and quality		5	1	4
		management plan				
	PC19.	assess risk and prepare plan for		5	1	4
		risk management	ļ			
	PC20.	take sign-off from client to start		5	1	4
		the project				
				100	20	80
	PC1.	visit site and assess proposed site		_		
		surroundings for designing		5	1	4
	DC2	purpose	4			
LSC/N8602	PC2.	assess space available for				
Design cold		refrigeration, equipment,		-	4	
storage plant		machinery, elevator, stairs, offices,	100	5	1	4
layout and		circulation and facility for loading	100			
prepare project	DC2	and unloading materials	4			
costing	PC3.	analyse functional flow and goods				
		movement (cold rooms,		-	1	л
		warehouse, loading and unloading		5	1	4
		facility, washing, grading, ripening				
	1	chamber, packhouse as per client's				





	-					· · · · · · · · · · · · · · · · · · ·
		requirement)				
	PC4.	design corridor or circulation space and fit facilities around it		5	1	4
	PC5.	prepare plan depending on the				
		cold storage operations, offices,		5	1	4
		parking area etc.				
	PC6.	share concept plan, floor plan, 3D				
		,structural and working drawing		5	1	4
		with the client				
	PC7.	calculate product load of the		5	1	4
		products stored in the cold storage			-	-
	PC8.	perform heat-load calculations for				
		measurements of walls, floors,		5	1	4
		ceillings, equipments etc				
	PC9.	calculate size of the compressor		5	1	4
	PC10.	determine number of storeys and				
		room sizes depending on type of				
		product, temperature and		5	1	4
		humidity requirement, storage		_		
		capacity, manpower and fork lift				
	DC11	movement etc				
	PC11.	calculate area and thickness of		5	1	4
	DC12	insulation				
	PC12.	Determine cold storage refrigerant				
		depending on size of chambers, location, targeted power saving,		5	1	4
		refrigerated technology selected		5	T	4
		etc.				
	PC13.	take sign-off from client				
	1 010.	Calculating project cost		5	1	4
	PC14.	determine land, machinery and		-		
		miscellaneous assets (furniture		5	1	4
		and fixtures) cost				
	PC15.	determine and list down all				
		required part assemblies, their		5	1	4
		parts, quantity and				
	PC16.	add up cost of all the parts in each		5	1	4
		assembly and calculate total		5	±	
	PC17.	determine labour required for the		5	1	4
		construction and labour cost			_	
	PC18.	calculate administrative, survey,				
		analysis and other preliminary		5	1	4
	0010	expenses				
	PC19.	calculate testing, commissioning		5	1	4
	DC20	and maintenance cost				<u> </u>
	PC20.	calculate project cost by adding up all expenses and cost incurred		5	1	4
		an expenses and cost incurred		100	20	80
	DC1	refer detailed project report		100	20	00
LSC/N8603	PC1.	refer detailed project report project execution plan and prepare		6	2	4
Execute and		detailed project construction plan	100	0	۷	4
implement cold	PC2.			6	n	Δ
storage project	ruz.	break down project execution		0	2	4





	Quui		ess managen	iem ope	eramse	
		activities to everyday tasks				
	PC3.	take print out of tasks to be			2	
		performed everyday		6	2	4
	PC4.	assign tasks to team members		6	2	4
	PC5.	take construction requirements				
		from stakeholders		6	2	4
	PC6.	issue materials as per requirement			2	
		and availability		6	2	4
	PC7.	handle grievances of team				
		members and labourers Tracking		6	2	4
		and monitoring of activities				
	PC8.	conduct status meetings		6	2	4
	PC9.	record minutes of meeting and		6	2	
		follow up		6	2	4
	PC10.	keep a track on expenses incurred		c	2	4
		and manhours utilized		6	2	4
	PC11.	keep a track on how much				
		quantity of raw materials etc are		6	2	4
		ordered and utilized				
	PC12.	take a round of the premises and		5	1	4
		inspect the site			-	-
	PC13.	ensure issued materials,				
		equipments, machinery etc are		5	1	4
		used for construction				
	PC14.	track and monitor activities to		5	1	4
	DC15	ensure tasks' completion on time				
	PC15.	escalate any non-completion of				
		task or comprise on quality to		5	1	4
		concerned authority Reporting and documenting activities				
	PC16.	share detailed project report				
	FCIU.	consisting of details on project				
		team, project execution, quality				
		management, risk management,		5	1	4
		stakeholder and communication			-	
		management with the client as per				
		company's standards				
	PC17.	document expenses incurred and	1	c	n	л
		manhours utilized		6	2	4
	PC18.	report to client and seniors about		3	1	2
		the progress of the project		3	1	Z
				100	30	70
	PC1.	search for possible vendors		-	n	-
		meeting project requirements		7	2	5
LSC/N8604	PC2.	use appropriate tendering				
Vanage vendor		processes to receive proposals		7	2	5
and maintain		from vendors	100			
relationship	PC3.	assess and evaluate proposals		6	2	4
		submitted by vendors			<u> </u>	
	PC4.	call vendors for presentation or		6	2	4
		query session	1	· ·		-





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	PC5.	select the most suitable vendor as per company's evaluation criteria		6	2	4
	PC6.					
	PC0.	negotiate and manage contract,				
		Statement of work(SOW), service		6	2	4
		level agreement(SLA) etc with the				
	0.07	vendor Working with vendors				
	PC7.	prepare a list of materials,		6	2	4
		equipments,machinery etc				
	PC8.	send purchase order to vendors as			-	
		per company's standards (email or		6	2	4
		courier)				
	PC9.	receive invoice from vendors		6	2	4
		against the purchase order			_	
	PC10.	receive and inspect the shipment		6	2	4
	PC11.	release payments to vendors as				
		per the bills raised and contract		6	2	4
		signed Evaluating performance of		0	2	, [,]
		vendors				
	PC12.	record and evaluate performance				
		of vendors on factors like quality				
		of service, on-time order		6	2	4
		completion, quality of material,				
		client satisfaction, call answer time				
	PC13.	perform analysis on recorded				
		information and take corrective				
		measures to improve performance		6	2	4
		of vendors Establishing				
		relationship with vendors				
	PC14.	inform and give purchase orders to				
		respective vendors in advance, so				
		that necessary materials,		5	1	4
		machinery etc are available at the		5	1	4
		commencement of construction				
		activity				
	PC15.	release payments to vendors on		F	4	
		time		5	1	4
	PC16.	conduct review meetings		5	1	4
	PC17.	understand and resolve vendor		5	1	4
		concerns and issues				
	DO1			100	30	70
	PC1.	check internal and external joints, panels and vapour seals		5	2	3
	PC2.	ensure no voids and gaps in the				
	FCZ.	insulation		5	2	3
LSC/N8605 Test	PC3.	ensure proper fitting of doors and				
and		door heaters		5	2	3
commission	PC4.	confirm thermal conductivity of	100			
cold storage	104.	the insulation material fall within				
plant		the range specified by the supplier		5	2	3
		or ISO/FDIS 4898				
	PC5.	test refrigeration system is				
	105.	functioning as per company's		5	2	3
		runctioning as per company s				





		J	5	1		
		standards				
	PC6.	make certain that cold rooms are				
		operating and maintaining defined		5	2	3
		temperature		_		_
	PC7.	make certain proper functionality		_		_
		of control panel		4	1	3
	PC8.	make sure proper ventilation in			4	2
		cold rooms and ripening chambers		4	1	3
	PC9.	make sure proper installation of				
		generator/s and electricity supply		4	1	3
		is in the plant				
	PC10.	ensure seamless flow of materials		4	1	2
		from one facility to the other		4	1	3
	PC11.	check rack system is in place and				
		able to take products as well as		4	1	3
		labour load				
	PC12.	check fire and emergency alarm		4	1	3
	PC13.	escalate issues or defects to				-
		stakeholders		4	1	3
	PC14.	follow up and resolve issues				
		Commissioning of cold storage		4	1	3
		plant				
	PC15.	prepare schedule for			4	2
		commissioning activities		4	1	3
	PC16.	assign responsibilities to team			4	2
		members		4	1	3
	PC17.	create test scenarios for each		4	1	2
		stage of the process		4	1	3
	PC18.	determine success and failure of		4	1	3
		any test scenario		4	T	5
	PC19.	escalate failure of test scenario to		4	1	3
		stakeholders, resolve and re-test		4	T	5
	PC20.	conduct drill successfully		4	1	3
	PC21.	ensure safety mechanisms are in		_	1	2
		place		4	1	3
	PC22.	perform client training and		~	1	n
		demonstrations		4	1	3
	PC23.	obtain statutory approvals and		2	1	n
		insurance approvals		3	1	2
	PC24.	ensure maintenance of				
		refrigeration system, machinery,		3	1	2
		equipments etc as per contract				
				100	30	70
LSC/N9901	PC1.	assess the various health, safety				
Maintain food		and environmental hazards in the		4	1	3
and personnel		cold storage				
safety, health	PC2.	take necessary steps to eliminate	100	~	1	n
and hygiene in		or minimize the hazards		4	1	3
cold storage	PC3.	analyze the causes of accidents at			1	n
plant		the workplace		4	1	3
	PC4.	take preventive measures to avoid		3	1	2
	F C4.	take preventive measures to avolu		<u></u> з	T	۷





Quui	fications Pack For Cold Chain Proce	ess munuyem	ent spe	ciulist
	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		3	
	to first aid kit when needed			
PC6.	ensure to use personal protective			
	equipment and safety gear such as			
	gloves, jacket, footwear etc. for		3	
	loading and unloading material in			
	cold rooms to protect themselves			
PC7.	from hypothermia, frostbite etc	-		
PC7.	ensure to display safety signs at places where necessary for people		3	
	to be cautious		5	
PC8.	use rubber mats in the places	-		
FCO.	where floors are constantly wet		2	
PC9.	ensure electrical precautions such	-		
FCJ.	as insulated clothing, adequate			
	equipment insulation, dry work		3	
	area, switch off the power supply		5	
	when not required, etc			
PC10.	display emergency exit plan at			
	prominent places and have			
	emergency assembly area			
	earmarked as a grid for easy		3	
	counting of on duty associates and			
	workers.			
PC11.	unplug the control panel,			
	compressor, condensor etc before		2	
	performing maintenance			
PC12.	report to the superior on any		3	
	problems and hazards identified		5	
PC13.	install fire alarms			
	(electrical/manual) in cold			
	store/deep freeze and keep other		4	
	safety devices like hammer/mallet			
	in the storage area			
PC14.	maintain appropriate ventilation			
	in the cold rooms to avoid		3	
	unacceptable accumulation of			
DC1F	heat, condensation or odours	-		
PC15.	check and review the cold storage areas frequently		3	
PC16.	stack items in an organized way	-		
1 C10.	and use safe lifting techniques to			
	reduce risk of injuries from		3	
	handling procedures at the storage		5	
	areas			
PC17.	ensure no sign of pest infestation			
	and install rodent traps, fly glues			
	and insectocutors wherever		3	
	needed			





			100	30	70
	clothes after ironing etc				
	everybody, wearing clean and tidy		5	Ţ	۷.
	like brushing teeth, taking shower		3	1	2
PC32.	develop personal hygiene habits				
	relieved from food handling				
	abscess, boils etc should be		4	1	3
PC31.	ensure workers suffering from				
	defect that may give rise to danger				
	a competent person to prevent				
	pipelines, and parts of pipework by		3	1	2
	devices, pressure vessels and				
PC30.	periodic examination of protective				
	duty or after using wash room				
	dry under a dryer as they enter for		3	1	2
PC29.	wash hands with soap solution and				
	storage				
	bangles, rings, and chains in cold		3	1	2
_	applying nail paint. Avoid wearing			4	-
PC28.	cut nails regularly and avoid	1			
	surface			-	_
	water and grease to avoid slippery		3	1	2
PC27.	keep the floors free from oil,				
	refrigerants etc)				
	and chemicals(ethylene,		3	T	Z
	machines(generator, compressor, condensor etc), gas (ammonia)		3	1	2
PC26.	ensure to be safe while handling				
DC26	per company's policies and rules				
	in the designated areas safely as		4	1	3
PC25.	dispose cold storage plant waste		л	1	э
DC2F	contaminants				
	free from pest infestation & other		3	1	2
PC24.	ensure reefers are covered, clean,		2	4	2
0024	near food storage area				
PC23.	avoid smoking, spitting, eating etc		3	1	2
	or as per customers' requirement				
	upon product and contamination		3	1	2
PC22.	fumigate containers depending				
	appropriate disposition				
	products to designate area for			-	2
	conforming products from other		3	1	2
PC21.	segregate damaged/ non-				
	out) to be practised			-	<u> </u>
PC20.	proper stock rotation (First in First		3	1	2
	unloading systems			-	£
PC19.	use effective loading and		3	1	2
	standards after PC 20				
	importing countries like FAO, EU				
	like FSSAI, APEDA and /or EIA or		3	1	2
	standards of Government bodies				
PC18.	follow hygiene & sanitation	2			
 Quui	fications Pack For Cola Chain Proce	ess munuyen	ient spe	ciulist	





Qualifications Pack For Cold Chain Process Management Specialist

	Quali	fications Pack For Cold Chain Proce	ess Manager	ier
	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	-	
	PCS.	-		
		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		
	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		
LSC/N9902	PC10.	seek assistance from the		
Communicate		colleagues when required		
effectively with	PC11.	identify the potential and existing	100	
colleagues and	1011.	conflicts with the colleagues and		
clients		resolve		
	PC12.	pass on essential information to	-	
	1012.	other colleagues on timely basis		
	PC13.	maintain the etiquette, use polite	-	
	1015.	language, demonstrate		
		responsible and disciplined		
	DC1 4	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,	1	
		coordination, communication and		
		collaboration, with shared goals		
		and supporting each other's		
	1		1	

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3	1	2





Qualifications Pack For Cold Chain Process Management Specialist

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	performance		
PC18	3. ask relevant questions to the	1	_
	client and identify their needs		3
PC19			
1010	market and cold chain operation		3
PC20	· · · · ·		
1 620	costs and challenges involved in		3
	the cold chain industry		J
PC22			
PC2.			2
	polite, professional and friendly		3
D (2)	manner		
PC22	•		3
	relationship with the client		
PC23			3
	and tone are used with clients		-
PC24	 listen actively and have a two-way 		3
	communication		,
PC25	5. be sensitive to the gender,		
	cultural and social differences such		2
	as modes of greeting, formality,		3
	etc.		
PC26	5. understand the client expectations		
	correctly and provide the		3
	appropriate products and services		
PC27			
_	dissatisfaction and address or		_
	escalate their complaints		3
	effectively		
PC28			
1 620	cooperative manner all time		3
PC29			
FC23	language, dress code, gestures and		2
			Z
DC2	etiquettes towards the client		
PC30			2
	they talk		
PC32	C .		2
	and statements to the client		
PC32	,		
	problems before hand and also on		2
	the developments involving them		
PC33			
	client immediately for their voice		2
	messages, e-mails, apps, etc.		
PC34	 develop good rapport with the 		
	client and promote other products		2
	and services		
PC35	5. seek feedback from the client on		
	their understanding to what was		2
	discussed		
PC36		1	
	clearly		2
			100
I			100

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