



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR CONSTRUCTION INDUSTRY

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
- 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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Contents

- 1. Introduction and Contents..... Page 1
- 2. Qualifications Pack.....Page 2
- 3. Glossary of Key Terms.....Page 3

Introduction

Qualifications Pack- Helper Laboratory & Field Technician

SECTOR: CONSTRUCTION

SUB-SECTOR: 1. Real Estate (Residential, Factories, Industry, Institutional & Special

Economic Zone)

2. Infrastructure (Roads, Railways, Runways & Urban Utilities)

3. Power Generation (Hydro, Thermal & Nuclear)

OCCUPATION: LABORATORY & FIELD TESTING

JOB ROLE: Helper Laboratory & Field Technician

REFERENCE ID: CON/Q 0401

Aligned To : NCO-2004 / 3111.10

Laboratory & Field Testing in Construction Industry is the specialized sub-sector pertaining to the testing of all construction related materials and activities both at site as well as at permanent laboratory. This incorporates specific requirements of the project like roads, runways, buildings along with the specialized activities related to tunneling & power projects also.

Brief Job Description of Helper Laboratory & Field Technician Level-1: Individual in this position in permanent, site & field construction laboratories. He provides support to the Assistant Lab Technician / Laboratory Incharge for organizing, selecting, sifting and carrying the materials, collection of samples and finally to maintain and upkeep the laboratory premises, equipment and instruments.

Personal Attributes: This job requires the individual to work in lab whether it is in field, at site or in permanent location as a **Helper Laboratory & Field Technician.** The individual needs to be physically fit to withstand working in a construction environment and responding to the needs and requirement of the tasks. He should be able to collect samples from site by digging, borring and other means under bad conditions and climatic.



Qualifications Pack For Helper Laboratory & Field Technician Level-1



Job Details

Qualifications Pack Code	CON/Q 0401		
Job Role	Helper Laboratory & Field Technician Level-1		
Credits(NSQF) [OPTIONAL]	TBD	Version number	1.0
Sector	Construction	Drafted on	30/07/2013
Sub-sector	1.Real Estate (Residential, Factories, Industry, Institutional & Special Economic Zone) 2.Infrastructure (Roads, Railways, Runways & Urban Utilites) 3.Power Generation (Hydro, Thermal & Nuclear)	Last reviewed on	30/07/2013
Occupation	Laboratory & Field Testing	Next review date	30/01/2014

Job Role	Helper Laboratory & Field Technician Level-1
Role Description	To work as Helper in Laboratory & Field Testing related to construction, materials and activities while attending and responding to the needs and requirement of the tasks under his trade senior level-2 and above.
NSQF level	1
Minimum Educational Qualifications*	Preferably equivalent to 10 th Standard
Maximum Educational Qualifications*	12 th Standard
Training (Suggested but not mandatory)	Training to be imparted so as to on completion candidate is capable to qualify for test & certification by authorised agency for Knowledge & Skill as per NOS for Level-1. Training period may vary from 6 to 8 weeks
Experience	NIL
Applicable National Occupational Standards (NOS)	Compulsory 1. CON/N0018 : Health, Safety & Environment 2. CON/N0019 : Identification, use and maintain the tools and equipments 3. CON/N0020 : Material - Handling, Sampling & Storing 4. CON/N0021 : Field Testing 5. CON/N0022 : Lab Testing
Performance Criteria	As per Occupation Standard (OS) for Level-1



Qualifications Pack For Helper Laboratory & Field Technician Level-1



Glossary of Key Terms

1	Keywords /Terms	Description
	Sector	Sector is conglomeration of different business operations having similar
		business and interests. It may also be defined as a distict subset of the
		economy whose components share similar characteristics and interests.
	Sub-Sector	Sub-Sector is derived from a further breakdown based on the characteristics
_		and interests of its components
	Occupation	Occupation is a set of job roles, which perform similar/related set of
-		functions in an industry
	Job role	Job role defines a unique set of functions that together form a unique
-		employment opportunity in an organization.
	Occupational Standards (OS)	OS specity the standards of performance an individual must achieve when
		carrying out a function in the workplace, together with the knowledge and
		understanding they need to meet the standard consistently. Occupational
_		Standards are applicable both in the Indian contexts.
	Performance Criteria	Performance Criteria are statements that together specify the standard of
-	0. 115. 11. 0. 1. (0.0)	performance required when carrying out a task.
	Qualifications Pack (QP)	Qualifications Pack comprises the set of OS, together with the educational,
		training and other criteria required to perform a job role. A Qualification
-	0 1:0 1:0 1	Pack is assigned a unique qualification pack code
	Qualification Pack Code	Qualification Pack Code is a unique reference code that identifies a
-	National Commettional	qualifications pack.
	National Occupational	NOS are Occupational Standards which apply uniquely in the Indian context.
-	Standanrds (NOS) Scope	Scope is the set of statements specifying the range of variables that an
	Scope	individual may have to deal with in carrying out the funcation which have a
		critical impact on the quality of performance required.
-	Knowledge and	Knowledge and Understanding are statements which together specify the
	Understanding	technical, generic, professional and organizational specific knowledge that
		an individual needs in order to perform to the required standard
-	Organizational Context	Organizational Context includes the way the organization is structured and
	6	how it operates, including the extent of operative knowledge managers have
		of their relevant areas of responsibility.
	Technical Knowledg	Technical Knowledge is the specific knowledge needed to accomplish specific
		designated responsibilities.
	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 OS, these include communication related
		skills that are applicable to most job roles.
	Keywords /Terms	Description
	CON	Construction
	NSQF	National Skill Qualifications Framework
	QP	Qualification Pack
	OS	Occupational Standards
	CSDCI	Construction Skill Development Council of India

Acronyms

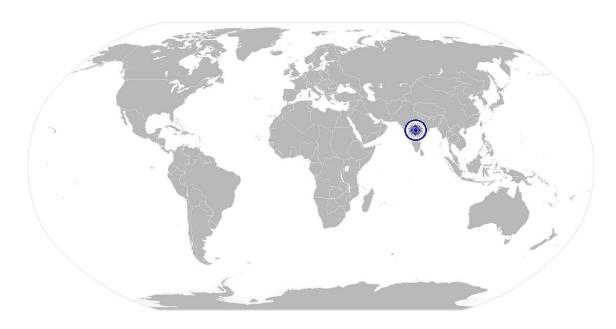






CON/ N 0018: Health, Safety & Environment

National Occupational Standard



Overview

This NOS covers the skill and knowledge of an individual to be proficient in Health, Safety & Environment in construction sector.





CON/ N 0018: Health, Safety & Environment

Unit Code	CON / N 0018	
Unit Title (Task)	Health, Safety & Environment	
Description	This unit describes the skill and knowledge to make and achieve the requirement of health, safety and environment in construction sector.	
Scope	Health, Safety & Environment	
Performance Criteria(P	C) w.r.t. the Scope	
Element	Performance Criteria	
Health, Safety and Environment	To be competent, the user/individual on the job must be able to: PC1.Demonstrate and use the Personal Protective Equipments such as Head Protection, Fall Protection, Foot Protection, Face & eye Protection, Ear Protection, Hand & Body Protection and Respiratory Protection. PC2. Follow Do's and Don'ts while working in lab and field PC3. Make out the First Aid with identification and use of basic dressing materials and bandages, resuscitation practices and actions PC4. Ensure the material handling such as shifting, lifting and carrying as per the procedure. PC5. Practice safety towards fire hazards and chemical hazards. The assessments based on viva-voice / interview / quiz test / demonstration technique shall be used to assess PC1 to PC5.	
Knowledge and Unders	standing (K)	
A. Organizational Context (Knowledge of the company / organization and its processes) B. Technical Knowledge	The user/individual on the job needs to know and understand: KA1. Organizations expectations, procedures and guidelines related with safety, health and environment KA2. Select and check the PPEs and know the indent and return procedures. KA3. Obey safety procedures at the lab / field KA4. Different type of health and safety hazards that can be found in the workplace KA5. Procedures for reporting against safety violations KA6. Upkeep the lab / field before and after test The user/individual on the job needs to know and understand: KB1. Evacuation procedures during rescue operation KB2. Use and importance of health, safety and accident reporting procedures KB3. First Aid Knowledge with identification and use of basic dressing materials KB4. Sound knowledge of safety norms	
Skille (S)	KB5. Differentiate the hazard and non-hazard materials	
Skills (S) A. Core Skills/ Generic Skills	Writing Skills The individual on the job needs to know and understand how to: SA1. Complete written work in details as per requirement Reading Skills The individual needs to know and understand how to: SA2. Read instructions, guidelines, procedures, rules Oral Communication (Listening and Speaking skills) The individual should do the following: SA3. Listen carefully and understand technicalities	
	SA4. Orally communicate to others effectively	







	CON/ N 0018: Health, Safety & Environment
B. Professional Skills	Decision Making
	The user/ individual on the job needs to know and understand how to:
	SB1. Use Personal Protective equipment in an area of excessive noise and pollution
	Plan and Organize
	The user/ individual on the job needs to know and understand how to:
	SB2. Ensure the procedures for do's and don'ts during first aid operation
	SB3. Carry out the first aid procedure during emergency SB4. Follow the safety procedure for material handling during lifting
	364. Follow the safety procedure for material nationing during litting
	Customer Centricity
	N.A.
	Problem Solving
	N.A.
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB5. Differentiate the hazards during handling of chemicals and hazards
	Critical Thinking
	N.A.
	Attention to Detail
	N.A.
	Team Working
	The user/ individual on the job needs to know and understand how to: SB6. Work in coordination with trade senior

SB7. Look after the interest other in case of emergency & requirement

SB8. Distribute work among colleagues

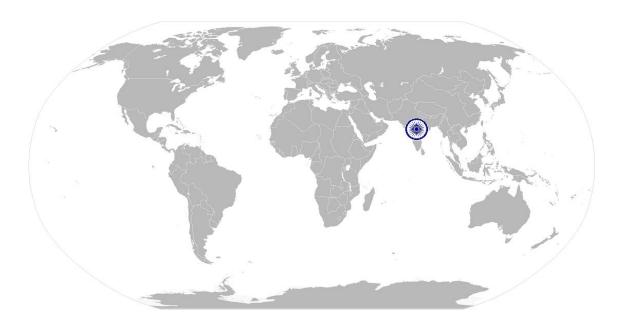






CON/ N 0019: Identification, use and maintain the tools and equipment

National Occupational Standard



Overview

This NOS covers the skill and knowledge for an individual to be proficient in identifying and using basic tools and equipments.





CON/ N 0019: Identification, use and maintain the tools and equipment

CON/ N 0019: Identification, use and maintain the tools and equipment		
Unit Code	CON / N 0019	
Unit Title (Task)	Identification, use and maintain the tools and equipment	
Description	This unit describes the skill and knowledge required to effectively identify, use and maintain the tools and equipment in concrete lab.	
Scope	Identification, use and maintain the tools and equipment	
Performance Criteria(F	PC) w.r.t. the Scope	
Element	Performance Criteria	
Identification, use and maintain the tools and equipment	To be competent, the user/individual on the job must be able to: PC1.Identify, select and use of tools such as trowel, measuring jar, gauging trowel, scale, measuring tape, scoop, stop watch, tray, tamping rod etc. PC2. Identify, select and use of equipment such as vicat apparatus & accessories, GI	
	Sieves, Digital weighing balance and slump cone etc. PC3. Care and maintenance of tools and equipments. PC4. Categories the equipment based on the requirement PC5. Read the gauges and meters PC6. Measure and calculate the area, volumes of solid and liquid The assessments based on viva-voice / interview / quiz test / demonstration technique shall be used to assess PC1 to PC6.	
Knowledge and Under	standing (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	 The user/individual on the job needs to know and understand: KA1. The safety precautions in handling the tools and equipments in lab and field conditions KA2. Select, identify and use of right tools and equipment for appropriate job KA3. Receiving and handing over tools and equipment from the lab store. KA4. Importance of indent details for in and out KA5. Labeling the tools and equipments KA6. Complaining procedures for defected tools and equipment KA7. Disposal against tested materials, damaged tools and rejected materials. 	
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. Storing and handling technique of tools and equipments KB2. Upkeep repair and maintenance of tools and equipments KB3. The names and identification of various parts of the equipments KB4. Acceptance and rejection criteria of tools and equipments KB5. Preservation of equipments from dust and heat KB6. About the calibration of machines and equipment for validation KB7. Reading of gauges and meters along with the least count.	
Skills (S)		
A. Core Skills/	Writing Skills	
Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. Record the data in the given table / format	

SA2. Fill and complete all the documents related to various tests under instructions

SA3. Prepare sketches, diagram and layouts for identifying exact location of

from his senior

sampling and testing







CON/ N 0019: Identification, use and maintain the tools and equipment		
	Reading Skills	
	The user / individual needs to know and understand how to:	
	SA4. Read the instructions, guidelines, procedures in English and Vernacular	
	language for sampling and testing	
	SA5. Segregate the samples by numbering and tag tags.	
	Oral Communication (Listening and Speaking skills)	
	The user / individual should do the following:	
	SA6. Listen & follow instruction accurately	
	SA7. Orally communicate to others effectively	
B. Professional Skills	Decision Making	
	The user / individual needs to know and understand how to:	
	SB1. Identify and use the tools such as trowel, measuring jar, gauging trowel, scale,	
	measuring tape scoop, stop watch, tray, tamping rod etc.	
	SB2. Identify, select and use of equipment such as vicat apparatus & accessories, GI	
	Sieves, Digital weighing balance and slump cone etc.	
	Plan and Organize	
	The user / individual needs to know and understand how to:	
	SB3. Carry out field testing in adverse climatic conditions	
	SB5. Maintain and handle the tools and equipment.	
	SB6. Read the gauges and meters for filling the testing format	
	Customer Centricity	
	NA	
	Problem Solving	
	NA	
	Analytical Thinking	
	The user / individual needs to know and understand how to:	
	SB7. Arrive the area, volumes of solid and liquid from linear measurements.	
	Critical Thinking	
	NA	
	Attention to Detail	
	Attention to Detail NA	
	NA	
	NA Team Working The user / individual needs to know and understand how to:	
	NA Team Working The user / individual needs to know and understand how to:	
	Team Working The user / individual needs to know and understand how to: SB6. Involved and complete the housekeeping activities in lab and field SB7. Work in coordination with trade senior	
	NA Team Working The user / individual needs to know and understand how to: SB6. Involved and complete the housekeeping activities in lab and field	

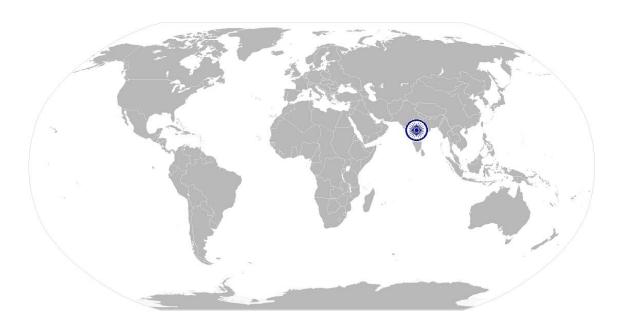






CON/ N 0020: Material - Handling, Sampling & Storing

National Occupational Standard



Overview

This NOS covers the skill and knowledge for an individual to be proficient in Material Sampling, Handling & Storing in lab and field.





CON/N 0020: Material - Handling, Sampling & Storing

Unit Code	N/N 0020: Material - Handling, Sampling & Storing CON / N 0020
Unit Title	
(Task)	Material- Handling, Sampling & Storing
Description	This unit describes the skills and knowledge required to effective Material Handling &
	Storing in lab and field.
Scope	Material- Handling, Sampling & Storing
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Material - Handling,	To be competent, the user/individual on the job must be able to:
Sampling & Storing	 PC1. Lift & shift the materials in accordance with workplace EHS requirement. PC2. Follow methods and sequence of sampling and collecting of materials such as cement, steel, sand, aggregate and wood etc. PC3. Understand the proper storing and stacking of cement, steel, wood, aggregate along with inflammable and other chemical hazards. PC4. Carry loose and fluid materials like chemicals, form-oil, fuel & admixtures PC5. Write and ensure the tagging and stacking system for each identification of materials for testing PC6. The assessment based on their performance and efficiency in material handling & storing shall be assessed through questions & answers and physical
	performance within the stipulated time
Knowledge and Unders	
A. Organizational Context (Knowledge of the company / organization and its processes) B. Technical	The user/individual on the job needs to know and understand to: KA1. Procedure for collecting the materials from field and store. KA2. Importance of indent for batch wise collection. KA3. Follow safety regulation for lifting and carrying. KA4. Store and stack the materials at identified lab locations. KA5. Ensure the importance of timely measure and enter the reading. KA6. Shift the shortfall materials within the required time from site. KA7. Return the surplus or balance materials to the site. KA8. Involve the housekeeping activities. The user/individual on the job needs to know and understand:
Knowledge	KB1. Height up to which the materials should be stacked. KB2. Handling materials as per its physical properties KB3. Loading and unloading of materials within lab premises. KB4. Stacking of materials by its size, shapes and physical properties. KB5. Handling and stacking of hazard materials based on fire and spread nature. KB6. Housekeeping procedures required in the lab premises
Skills (S)	
A. Core Skills/	Writing Skills
Generic Skills	The individual on the job needs to know and understand how to: SA1. Make the line, sketch and label Reading Skills
	The user/individual on the job needs to know and understand: SA2. Read instructions, guidelines, sign boards, safety rules & safety tags.







CON/ N 0020: Material - Handling, Sampling & Storing		
B. Professional Skills	Decision Making	
	The user/individual on the job needs to know and understand how to: SB1. Handle Equipment, tools and tackles required for material handling and storing. SB2. Stack and store the materials with proper methodology and sequence based on the labeling. SB3. Identify and stack the hazard materials based on fire and spread nature Plan and Organize	
	The user/individual on the job needs to know and understand how to:	
	SB4. Stacked the materials up-to the safe height.	
	SB5. Shift materials as per its physical properties.	
	SB6. Load and unload of materials during collection and sampling.	
	Customer Centricity	
	NA	
	Durch Law Calabian	
Problem Solving		
	NA NA	
	Analytical Thinking	
	The user/individual on the job needs to know and understand how to: SB7. Report the observed wrong practice / misuse / damaging of materials during handling, sampling and storing of materials at workplace.	
	Critical Thinking	
	NA	
	Attention to Detail	
	NA	
	Team Working	
	The user/individual on the job needs to know and understand how to:	
	SB8. Housekeeping procedures required in the workplace SB9. Work in coordination with trade senior	
	SB10. Look after the interest other in case of emergency & requirement	
	and a second the interest other in case of emergency & requirement	

SB11. Distribute work among colleagues

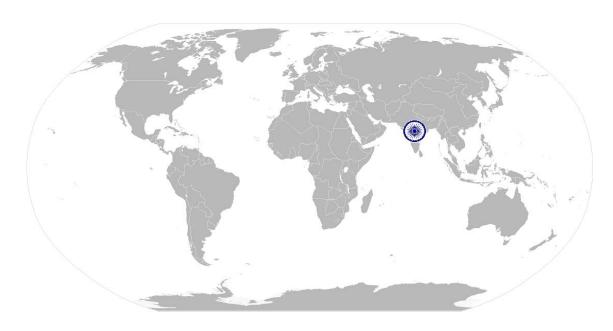






CON/ N 0021: Field Testing

National Occupational Standard



Overview

This NOS covers the skill and knowledge of the individual to provide support and help in conducting the field test pertaining to the construction material and activities.





CON/ N 0021: Field Testing

Unit Code	CON / N 0024
	CON / N 0021
Unit Title (Task)	Field Testing
Description	This unit describes the skill and knowledge required by individual in helping and providing support for conducting the field test related to construction material and activities.
Scope	Field Testing
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Field Testing	To be competent, the user/individual on the job must be able to: PC1.Carry out the visual and physical checking of cement against the expiry, setting, adulteration or any other visual changes for lab testing. PC2.Carry out the visual and physical checking on sand for the adulteration and the activity it will be used PC3.Carry out the visual and physical checking on coarse aggregate for adulteration and the activity it will be used PC4.Carry out the visual and physical checking on bricks for size and shape, colour, ringing sound and one meter fall test PC5. Carry out the visual and physical checking on uniformity of mortar for sample collection PC6.Support and help in carrying out workability test, water-cement ratio, temperature of concrete and making of cubes for lab testing PC7.Carry out the core sampling for soils to limited depth of one meter PC8. Carry out the core sampling of hardened concrete for nondestructive testing limited to maximum depth of 150mm. The assessments based on viva-voice / interview / quiz test / demonstration technique shall be used to assess PC1 to PC8.
Knowledge and Unders	
A. Organizational Context (Knowledge of the company / organization and its processes)	 The user/individual on the job needs to know and understand to: KA1. Organizations expectations, procedures and guidelines related with safety, health and environment during sample collection and field testing KA2. Obey and involved safety procedures at the field KA3. Different type of health and safety hazards that can be found in the workplace KA4. Different sampling procedures and norms for solid and liquid materials KA5. Use different type of formats for appropriate tests with date and numbering KA6. Differentiate the numbering, coding, colouring, tag and marking for different material, samples and testing
B. Technical Knowledge	The user/individual on the job needs to know and understand to: KB1. Sampling methodology required material and equipment for the same KB2. Precautionary measures, Do's and Don'ts related to field test KB3. The basic measurement units and their conversion to MKS system KB4. The basic properties of construction materials for collecting, storing and testing KB5. The tolerances and limitations of the field test KB6. Measure and enter the reading based on least count of each equipment





CON/ N 0021: Field Testing

CON/ N 0021: Field Testing		
A. Core Skills/	Writing Skills	
Generic Skills	The individual on the job needs to know and understand how to:	
	SA1. Record the data in the given table / format	
	SA2. Fill and complete all the documents related to various tests under instructions	
	from his senior	
	SA3. Prepare sketches, diagram and layouts	
	Reading Skills	
	The individual needs to know and understand how to:	
	SA4. Read the instructions, guidelines, procedures in English and Vernacular	
	language for sampling and testing	
	SA5. Segregate the samples by numbering and tag tags	
	Oral Communication (Listening and Speaking skills)	
	The individual should do the following:	
	SA6. Listen and follow carefully	
	SA7. Orally communicate to others effectively	
B. Professional Ski		
b. Floressional Ski	The user/ individual on the job needs to know and understand how to:	
	SB1. Decide on the tool requirements	
	SB2. Quality of sample collection	
	SB3. Adopt correct methodology	
	Plan and Organize	
	The user/ individual on the job needs to know and understand how to:	
	SB4. Movement of tools & items require in ded / site labs	
	SB5. Safe and secure collection of sample	
	SB6. Data Collection	
	Customer Centricity	
	N.A.	
	Problem Solving	
	The user/ individual on the job needs to know and understand how to:	
	SB7. Arrange field test in bad weather	
	SB8. Variation in sample collection	
	Analytical Thinking	
	N.A.	
	Critical Thinking	
	The user/ individual on the job needs to know and understand how to:	
	SB9. In case of lost data the backup arrangement to be planned	
	SB10. Packing material for samples	
	Attention to Detail	
	N.A.	
	Team Working	
	-	
	The user/ individual on the job needs to know and understand how to:	
	SB11. Work in coordination with trade senior	
	SB12. Look after the interest other in case of emergency & requirement	
	SB13. Distribute work among colleagues	

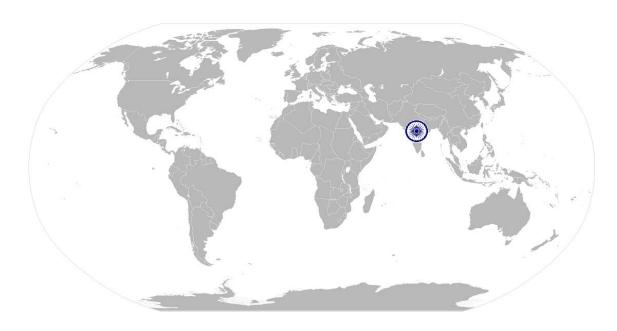






CON/ N 0022: Lab Testing

National Occupational Standard



Overview

This NOS covers the skill and knowledge of the individual to provide support and help in conducting the lab test pertaining to the construction material and activities.





CON/ N 0022: Lab Testing

	Unit Code	CON / N 0022	
	Unit Title (Task)	Lab Testing	
	Description	This unit describes the skill and knowledge required by individual in helping and providing support for conducting the lab test related to construction material and activities.	
	Scope	Lab Testing	
	Performance Criteria(P	C) w.r.t. the Scope	
	Element	Performance Criteria	
	Lab Testing	To be competent, the user/individual on the job must be able to: PC1.Carry out the sieve analysis test for fine and coarse aggregates PC3.Support and help the specific gravity test for soil, fine and coarse aggregates PC4.Carry out the crushing strength of bricks, aggregate and concrete cubes PC5. Carry out water absorption test for bricks, wood and aggregates PC6. Support and help in conducting the normal consistency test / initial and final setting time of cement PC7. Support and help in conducting test for finding safe bearing capacity of soil by various method against the material collection from field to lab PC8. Ensure the calibration of machine before conducting the each test PC9. Support and help in conducting tests for bitumen PC10. Assisting conducting mix design and compaction test for concrete The assessments based on viva-voice / interview / quiz test / demonstration	
ŀ		technique shall be used to assess PC1 to PC10.	
	Knowledge and Unders		
	A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand to: KA1. Organizations expectations, procedures and guidelines related with safety, health and environment from collected sample from field and lab testing KA2. Obey and involved safety procedures at the lab KA3. Different type of health and safety hazards that can be found in the lab atmosphere	
	its processes)	 KA4. Different sampling procedures and norms for solid and liquid material testing KA5. Use different type of formats for appropriate tests with date and numbering KA6. Differentiate the numbering, coding, colouring, tag and marking for different material, samples for the lab testing from field. 	
	B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. Identify and differentiate the materials based on label and coding by sampling KB2. Precautionary measures, Do's and Don'ts related to lab test KB3. The basic measurement units and their conversion to MKS system KB4. The basic properties of construction materials during testing KB5. The tolerances and limitations of the field test KB6. Measure and enter the reading based on least count of each equipment.	
	Skills (S)		
ľ	A. Core Skills/	Writing Skills	
	Generic Skills	The individual on the job needs to know and understand how to:	
		SA1. Complete written work in details.	





CON/ N 0022: Lab Testing

CON/ N 0022: Lab Testing							
	Reading Skills						
	The individual needs to know and understand how to:						
	SA2. Read instructions, guidelines, procedures, rules						
	Oral Communication (Listening and Speaking skills)						
	The individual should do the following:						
	SA3. Listen carefully						
	SA4. Orally communicate to others effectively						
B. Professional Skills	Skills Decision Making						
	The user/ individual on the job needs to know and understand how to:						
	SB1. Decide on the tool requirements						
	SB2. Quality of sample collection						
	SB3. Adopt correct methodology						
	Plan and Organize						
	The user/ individual on the job needs to know and understand how to:						
	SB4. Movement of tools & items require in field / site labs						
	SB5. Safe and secure collection of sample						
	SB6. Data Collection						
	Customer Centricity						
	NA						
	Problem Solving						
	The user/ individual on the job needs to know and understand how to:						
	SB7. Arrange field test in bad weather						
	SB8. Variation in sample collection						
	Analytical Thinking						
	The user/ individual on the job needs to know and understand how to:						
	SB4. Support and follow the instructions and methodology for crushing strength of						
	bricks, aggregate and concrete cubes						
	SB5. Support and follow the instructions and methodology for water absorption test						
	for bricks, wood and aggregate						
	Critical Thinking						
The user/ individual on the job needs to know and understand how to:							
	SB9. In case of lost data the backup arrangement to be planned						
	SB10. Packing material for samples						
	Attention to Detail						
	NA						
	Team Working						
	The user/ individual on the job needs to know and understand how to:						
	SB11. Work in coordination with trade senior						
	SB12. Look after the interest other in case of emergency & requirement						
	SB13. Distribute work among colleagues						
	1						





Assessment Criteria for Helper Laboratory & Field Technician				
Job Role	Helper Laboratory & Field Technician			
Qualification Pack	CON/Q0401			
Sector Skill Council	Construction			

Guidelines for Assessment

- 1. Criteria for assessment for Qualification Pack has been created based on the NOSs and performance criteria by CSDCI. Each Performance Criteria (PC) has been assigned marks proportional to its importance within NOS and weightages have also been given among the NOSs accordingly. CSDCI has laid down the proportion of marks for Skills, Theory/Knowledge & Behaviour and Written test for each PC.
- 2. The assessment of the theory/knowledge will be based on written test/viva-voce or both while skill test shall be hands on practical. Behaviour and attitude will be assessed while performing the task.
- 3. The assessment shall be done as per the assessment sheets devised by CSDCI and accordingly the assessment agencies in consultation with CSDCI will create unique question papers for theory/knowledge and attitude for each candidate at each CSDCI accredited testing centres (as per assessment criteria below)
- 4. The assessment agencies will conduct the assessment as per the guidelines given by CSDCI having unique evaluations for skill practical for every student at each CSDCI accredited testing centre based on this criteria
- 5. To pass the Qualification Pack, every trainee should score a minimum overall percentage of **70% in Skill**, **50% in Knowledge & Behaviour and 50% in Written test** separately in each attribute.

6. Each student at **Level-1** has to pass in attributes namely Skill, Knowledge & Behaviour and Written test as per the percentage given below in totality.

S. No.	NOS No.	NOS Name	Total Marks	Marks Allocation		
				Skills	Knowledge	Written
				>/	& Behaviour	Test
1	CON/N0018	Health, Safety & Environment	32	18	11	3
2	CON/N0019	Identification, use and maintain the tools & equipments	68	38	24	6
3	CON/N0020	Material – Handling, Sampling and Storing	55	29	22	4
4	CON/N0021	Field Testing	62	41	14	7
5	CON/N0022	Lab Testing	61	40	14	7
Total 278			166	85	27	
Percentage weightage			60%	30%	10%	
Minimum Pass % to qualify			70%	50%	50%	