



QUALIFICATION PACK – OCCUPATIONAL STANDARD FOR INFRASTRUCTURE EQUIPMENT 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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Introduction

Qualification Pack - Junior Batching Plant Operator

SECTOR: INFRASTRUCTURE EQUIPMENT

SUB SECTOR: Equipment Operations

OCCUPATION: Operator

REFERENCE ID: IES/Q0117

ALIGNED TO: NCO-2004/NIL

Brief Job Description: A junior batching plant operator is responsible for assisting in making the concrete as per mix design supplied by the authorized concerned person. In addition to operating the plant, he will maintain adequate levels of all supplies and products.

Personal Attributes: This job requires the individual to be extremely careful and diligent and have high level of concentration. Hard work and strong work ethics courteous behavior with co-workers are equally desirable. He should also be physically agile, strong, have good eye sight and not suffer from colour-blindness.





Qualifications Pack Code		IES/Q0117			
Job Role		Junior Batching Plant Operator			
Credits(NSQF)	TBD	TBD Version number 1.0			
Sector	Infrastructure Equipment	Drafted on	14/04/16		
Sub-sector	Equipment Operations	Last reviewed on	26/04/16		
Occupation	Operator	Next review date	30/04/18		
NSQC Clearance on	NA				

Job Role	Junior Batching Plant Operator		
Role Description	A junior batching plant operator is responsible for assisting in making the concrete as per mix design supplied by the authorized concerned person. In addition to operating the plant, he will maintain adequate levels of all supplies and products.		
NSQF level	3		
Minimum Educational Qualifications	Class VIII preferably.		
Maximum Educational Qualifications	NA		
Training	Certification Training in concrete batching plant operations		
(Suggested but not mandatory)	preferred		
Minimum Job Entry Age	18 years		
Experience	Preferably2 years of experience as helper in batching plant operations		
Applicable National Occupational Standards (NOS)	1. IES/N0149Assist in carrying Pre-operation checks on a batching plant 2. IES/N0150Assist in carrying out batching plant operations 3. IES/N0151Assist in regular maintenance of the batching plant 4. IES/N7601Comply with worksite health and safety guidelines Optional: N.A.		
Performance Criteria	As described in the relevant OS units		





Keywords /Terms	Description		
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.		
Vertical	Vertical may exist within a sub-sector representing different domain areas		
	or the client industries served by the industry.		
Occupation	Occupation is a set of job roles, which perform similar/related set of		
	functions in an industry.		
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 OS.		
Sub-functions	Sub-functions are sub-activities essential to fulfil achieving the objectives of		
	the function.		
Job role	Job role defines a unique set of functions that together form a unique		
	employment opportunity in an organization.		
Occupational Standards	OS specify the standards of performance an individual must achieve when		
(OS)	carrying out a function in the workplace, together with the knowledge and		
	understanding; he/she needs to meet that standard consistently.		
	Occupational Standards are applicable both in the Indian and global		
	contexts.		
Performance Criteria	Performance Criteria are statements that together specify the standard of		
	performance required when carrying out a task.		
National Occupational	NOS are Occupational Standards which apply uniquely in the Indian context.		
Standards (NOS)			
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a		
	qualifications pack.		
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 Qualifications		
	Pack is assigned a unique qualification pack code.		
Unit Code	Unit Code is a unique identifier for an Occupational Standard, which is		
	denoted by an 'N'.		
Unit Title	Unit Title gives a clear overall statement about what the incumbent should		
	be able to do.		
Description	Description gives a short summary of the unit content. This would be		
	helpful to anyone searching on a database to find the required one.		
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 required performance.		
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 up to the required standard.		





Keywords /Terms	Description
OS	Occupational Standard(s)
NOS	National Occupational Standard(s)
QP	Qualifications Pack
NSQF	National Skill Qualifications Framework
ITI	Industrial Training Institute
HCV	Heavy Commercial Vehicle
SHE	Safety Health and Environment
SOP	Standard Operating Procedure
TBD	To Be Determined



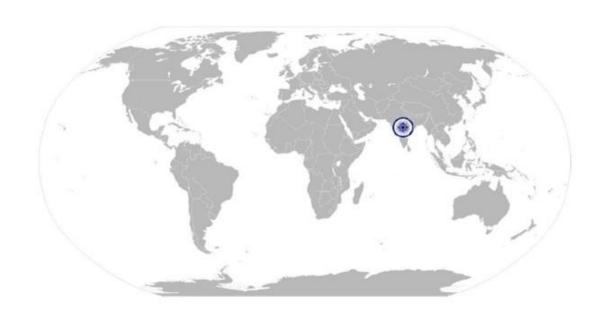






Assist in carrying Pre-operation checks on a batching plant

National Occupational Standard



Overview

This unit provides Performance Criteria, Knowledge & Understanding and Skills & Ability for assisting to carry out pre-operational checks to prepare the batching plant for a shift.







Assist in carrying Pre-operation checks on a batching plant

Unit Code	IES/N0149		
Unit Title (Task)	Assist in carrying Pre-operation checks on a batching plant		
Description Description	This unit provides insight into assisting to carry out pre-operational checks to		
Jessen pulon	prepare the batching plant for a shift.		
Scope	This unit/task covers the following:		
	Pre-operation checks		
	Reporting and documentation		
Performance Criteria(P			
Element	Performance Criteria		
Pre-operation Checks	To be competent, the user/individual on the job must be able to:		
	PC1. Assist in Inspecting oil and filter on air compressor, drain tank		
	manifolds and all water traps as per the procedures set by the		
	manufacturer		
	PC2. Check the oil level in all gear boxes, hydraulic unit, drum motor oil and		
	auto-roll as per instructions from the operator/supervisor		
	PC3. Fill all the bins and silos as per instructions from the operator/ supervisor		
	PC4. Check for tensions on all V-drive belts and other belts for wear and tear		
	as per the instructions from the operator/ supervisor		
	PC5. Store the liquid admixtures as per the organizational standards to		
	avoid contamination		
	PC6. Check that admixture dispensers are in good working condition as		
	stated by the operator/ supervisor		
	PC7. Ensure that safety equipment is present and securely mounted as per		
	the organizational standards		
	PC8. Check for wiring damage and loose electrical fitting for the electric		
	drive motors		
	PC9. Turn off mixer motor before carrying out mixer cleaning or chipping		
	PC10. Empty the weigh hoppers from the previous day's operation		
	PC11. Clean the area under plant for spillage and trace source		
	PC12. Check conveyors, boom scrapers and bucket elevators for free running		
	and wear, and adjust as per the instructions from the operator's supervisors		
	PC13. Check all hoppers and doors are in clean and efficient working order		
	PC14. Check tightness of all hydraulic connections and the condition of		
	flexible tubes		
	PC15. Check and remove any cement or concrete build up in the mixer		
	PC15. Check and remove any cement of concrete balla up in the mixer PC16. Check dust seals on cement hoppers for wear		
	PC17. Check mixer drum for structural cracks or damage		
	PC18. Ensure that before work, the machine should have an empty running		
Reporting and	PC19. Assist in maintaining a check/maintenance logbook to record all		
documentation	activities performed before starting the batching plant		
	PC20. Report defects precisely to the operator/ supervisor		







Assist in carrying Pre-operation checks on a batching plant

Knowledge and Unders	tanding (K)			
A. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. The organization's procedures and guidelines related to Breakdown &			
(Knowledge of the	Maintenance services			
company /	KA2. The performance standards & procedures followed in the company			
organization and	KA3. Reporting structure in the company			
its processes)	KA4. Location of tools			
,	KA5. Contact person in case of queries on procedure or products			
	KA6. Location and process for storage and disposal of waste material			
	KA7. Safety Policy of the company			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	KB1. Different types of batching plant and their use and function			
	KB2. Introduction to weighing systems storage systems, water systems			
	conveying systems admix systems, their use and function			
	KB3. Different equipment in batching plant such as conveyors, dust collector			
	storage bins, weigh hoppers, water storage tanks, admix system,			
	pumps, mixers, components, and functions.			
	KB4. Equipment operating systems such as hydraulic systems, electrical			
	system lubricating systems, pneumatic systems, mechanical systems			
	and fuel systems			
	KB5. Synthetic, non-synthetic oils and admixtures			
	KB6. Significance and methods of lubricating different parts of the concrete			
	KB6. Significance and methods of lubricating different parts of the concrete batching plant			
	KB7. Earthing of plants to protect load cells			
	KB8. Visual checks to identify damage, defects, cracks or leaks beforehand			
Skills (S)				
A. Core Skills /	Writing Skills			
Generic Skills	The user/ individual on the job needs to know and understand how to:			
	SA1. Record any deviations/ incidents as per prescribed norms			
	Reading Skills			
	The user/individual on the job needs to know and understand how to:			
	SA2. Read and comprehend basic English and regional language as			
	applicable to read manuals of operations, guidelines, etc.			
	Oral Communication (Listening and Speaking Skills)			
	The user/ individual on the job needs to know and understand how to:			
	SA3. Use correct technical terms while interacting with supervisor			
B. Professional Skills	Decision Making			
	The user/ individual on the job needs to know and understand how to:			
	SB1. Assist in deciding when to conduct maintenance checks			
	Plan and Organize			
	The user/ individual on the job needs to know and understand how to:			
	SB2. Work with operators, supervisors/ team mates to carry out work			
	related tasks			
	Customer Centricity			
	The user/ individual on the job needs to know and understand how to:			







Assist in carrying Pre-operation checks on a batching plant

	SB3.	Provide service of the highest order to ensure customer satisfaction
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Problem Solving

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

SB4. Judge when to seek assistance from the operator/supervisor

Analytical Thinking

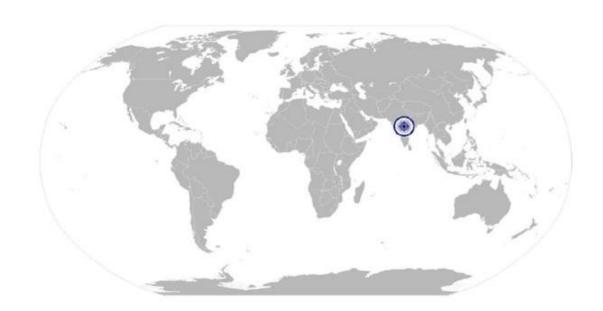
The user/individual on the job needs to know and understand how to:

SB5. Identify cause and effect relations in his area of work

Critical Thinking

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

SB6. Analyse, evaluate and apply the information gathered from observation, experience, reasoning, or communication to act efficiently











Assist in carrying Pre-operation checks on a batching plant

NOS Version Control

NOS Code	IES/N0149		
Credits(NSQF)	TBD	Version number	1.0
Sector	Infrastructure Equipment	Drafted on	14/04/16
Industry Sub-sector	Equipment Operations	Last reviewed on	26/04/16
Occupation	Operator	Next review date	30/04/18





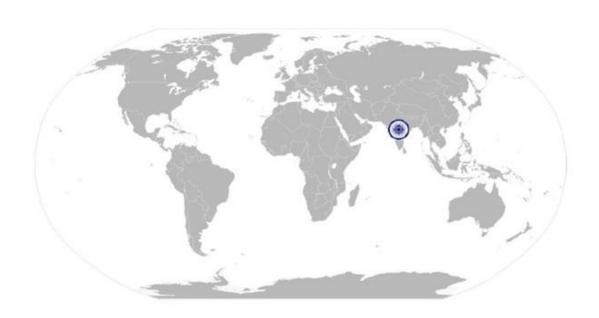






Assist in carrying out batching plant operations

National Occupational Standard



Overview

This unit provides Performance Criteria, Knowledge & Understanding and Skills & Ability for activities that are required for operating a concrete batching plant.







Assist in carrying out batching plant operations

	Assist in carrying out batching plant operations			
Unit Code	IES/N0150			
Unit Title (Task)	Assist in carrying out batching plant operations			
Description	This unit provides insight into activities that are required for operating a			
	concrete batching plant.			
Scope	This unit/task covers the following:			
	Batching plant operations			
	Safety during operations			
Performance Criteria(PC				
Element	Performance Criteria			
Batching plant	To be competent, the user/individual on the job must be able to:			
operations	PC1. Assist in starting components in correct order as per instructions from			
	the operator/ supervisor			
	PC2. Assist in monitoring and regulate materials such as proportions of			
	aggregates, cement, water, and admixtures as per instructions from			
	the operator/ supervisor			
	PC3. Use the emergency stop button to disable all power to the batching			
	plant in case of a crisis, as per instructions form the			
	operator/supervisor			
	PC4. Coordinate with ground personnel, loader operators and truck drivers			
	PC5. Ensure that truck is properly positioned under sock to ensure correct			
	direction of the drum			
	PC6. Discharge batched concrete into delivery trucks/mixersas per			
	instructions from the operator/ supervisor			
	PC7. Assist in shutting down procedures as per instructions from the			
Cafatu dunina	operator/ supervisor			
Safety during operations	PC8. Wear dust masks when working around the plant PC9. Make positive eye contact with other equipment operators at the site			
operations				
	before crossing in front of or behind the equipment PC10. Wear all PPE while sampling concrete and for all operations			
Knowledge and Unders				
A. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. The organization's procedures and guidelines related to breakdown &			
(Knowledge of the	maintenance services			
company /	KA2. The performance standards & procedures followed in the company			
organization and	KA3. Reporting structure in the company			
its processes)	KA4. Location of tools			
,	KA5. Contact person in case of gueries on procedure or products			
	KA6. Location and process for storage and disposal of waste material			
	KA7. Safety Policy of the company			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	KB1. Different types of mixers such as			
	- Non-tilting reversible drum concrete mixer			
	- Double conical tilting mixer			
	- Pan mixer			
	- Turbo pan mixer			







Assist in carrying out batching plant operations

	Assist in carrying out batching plant operations		
	 Single shaft/twin shaft compulsory mixer/pug mill 		
	KB2. Different types of batching equipment such as manual, semi-automatic		
	and automatic		
	KB3. Types of cements materials used		
	KB4. Feeding methods for cement, flash into the silos		
	KB5. Number and size of silos		
	KB6. Different methods of feeding cement using bucket elevator, screw		
	conveyor and pneumatic system		
	KB7. Different admixtures that are added to concrete mixes, such as		
	aerators, retarders super plasticizers, accelerators, colours water		
	reducers fiber mesh etc.		
	reducers fiber mesh etc. KB8. Types of control systems – calibration/scada/automatic operations		
	KB9. Basic tools such as screw driver, hammer, assorted wrenches, grease		
	gun, hand scraper, tape measure, sledge hammer, multi-meter, shovel,		
	etc.		
	KB10. The location and procedure of using the emergency stop button		
	KB11. Basic procedures for operating a batching plant		
	The state of the s		
CL:U- /C)	KB12. Response to emergencies e.g. correct way to use fire extinguisher		
Skills (S)	Maritim - Chille		
A. Core Skills /	Writing Skills		
Generic Skills	The user/ individual on the job needs to know and understand how to:		
	SA1. Record any deviations/ incidents as per prescribed norms		
	Reading Skills The year / individual on the inhungeds to know and wedge tand how to		
	The user/ individual on the job needs to know and understand how to:		
	SA2. Read and comprehend basic English and regional language as		
	applicable to read manuals of operations, guidelines, etc.		
	SA3. Interpret stakes and signage on the worksite		
	Oral Communication (Listening and Speaking Skills) The user/individual on the industry 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. Use correct technical terms while interacting with operator/ supervisor		
B. Professional Skills			
B. Professional Skills	SA4. Use correct technical terms while interacting with operator/ supervisor		
B. Professional Skills	SA4. Use correct technical terms while interacting with operator/ supervisor Decision Making		
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B. Professional Skills	SA4. Use correct technical terms while interacting with operator/ supervisor Decision Making The user/ individual on the job needs to know and understand how to: SB1. Assess for any damage/faulty component in the batching plant and take action accordingly		
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B. Professional Skills	SA4. Use correct technical terms while interacting with operator/ supervisor Decision Making The user/ individual on the job needs to know and understand how to: SB1. Assess for any damage/faulty component in the batching plant and take action accordingly Plan and Organize The user/ individual on the job needs to know and understand how to: SB2. Work with supervisors/ team mates to carry out work related tasks		
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B. Professional Skills	SA4. Use correct technical terms while interacting with operator/ supervisor Decision Making The user/ individual on the job needs to know and understand how to: SB1. Assess for any damage/faulty component in the batching plant and take action accordingly Plan and Organize The user/ individual on the job needs to know and understand how to: SB2. Work with supervisors/ team mates to carry out work related tasks Customer Centricity The user/ individual on the job needs to know and understand how to: SB3. Provide service of the highest order to ensure customer satisfaction Problem Solving		
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B. Professional Skills	Decision Making The user/ individual on the job needs to know and understand how to: SB1. Assess for any damage/faulty component in the batching plant and take action accordingly Plan and Organize The user/ individual on the job needs to know and understand how to: SB2. Work with supervisors/ team mates to carry out work related tasks Customer Centricity The user/ individual on the job needs to know and understand how to: SB3. Provide service of the highest order to ensure customer satisfaction Problem Solving The user/ individual on the job needs to know and understand how to: SB4. Identify immediate or temporary solutions to resolve mechanical issues		
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Assist in carrying out batching plant operations

SB6.	SB6. Identify cause and effect relations in his area of work			
Critical Thinking				
The user/ individual on the job needs to know and understand how to:				
SB7. Analyse, evaluate and apply the information gathered from				
	observation, experience, reasoning, or communication to act efficiently			









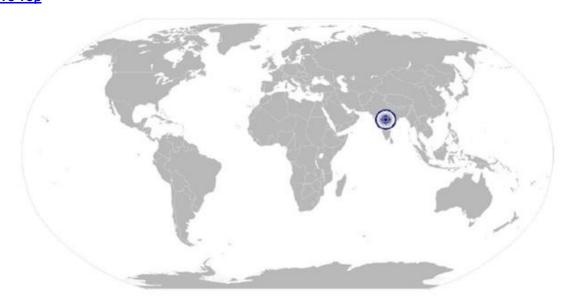


Assist in carrying out batching plant operations

NOS Version Control

NOS Code	IES/N0150		
Credits(NSQF)	TBD	Version number	1.0
Sector	Infrastructure Equipment	Drafted on	14/04/16
Industry Sub-sector	Equipment Operations	Last reviewed on	26/04/16
Occupation	Operator	Next review date	30/04/18

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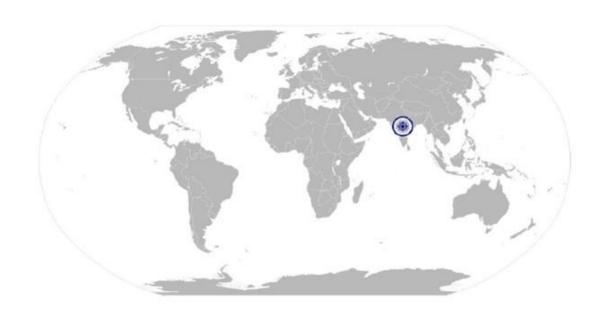






Assist in regular maintenance of the batching plant

National Occupational Standard



Overview

This unit provides Performance Criteria, Knowledge & Understanding and Skills & Ability for activities that are required for performing routine maintenance and troubleshooting on the batching plant.







Assist in regular maintenance of the batching plant

	Assist in regular maintenance of the batching plant			
Unit Code	IES/N0151			
Unit Title (Task)	Assist in regular maintenance of the batching plant			
Description	This unit provides insight into activities that are required for performing			
	routine maintenance and troubleshooting on the batching plant.			
Scope	This unit/task covers the following:			
	Routine maintenance			
	Basic diagnostics and troubleshooting			
	Documentation and Reporting			
Performance Criteria(P	C) w.r.t. the Scope			
Element	Performance Criteria			
Routine maintenance	To be competent, the user/individual on the job must be able to:			
	PC1. Clean drum mixer internally as per instructions form the operator/			
	supervisor			
	PC2. Wash the batching plant externally with water to remove all built-up			
	deposits as per instructions form the operator/ supervisor			
	PC3. Lubricate the equipment in different parts as per instructions of the			
	operator			
	PC4. Replace defective components as per instructions from the operator/			
	supervisor			
	PC5. Clean the rubber chute that discharges the cement into the mixer as			
	per instructions from the operator/ supervisor			
	PC6. Assist in performing basic housekeeping activities in the control room			
	PC7. Adjust all belt wipers as per instructions from the operator/ supervisor			
	PC8. Blow clean all air filters on air compressor and aeration blowers as per			
	instructions from the operator/ supervisor			
Dasia diagnostica and	operator/ supervisor			
Basic diagnostics and	PC10. Turn off the mains power from panel completely before carrying out maintenance work			
troubleshooting				
	PC11. Replace the defective parts are replaced immediately as per			
	instructions from the operator/ supervisor			
	PC12. Clean magnetic oil plugs during each oil change as per instructions			
	from the operator/ supervisor			
	PC13. Handle and dispose waste based on environmental guidelines at the			
Daniel Programme	work place			
Reporting and	PC14. Follow reporting procedures as laid down by the employer			
Documentation	PC15. Report and escalate problems/ incidents as required in a timely			
Manufadas auditud	manner			
Knowledge and Unders				
A. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. The organization's procedures and guidelines related to breakdown &			
(Knowledge of the	maintenance services			
company /	KA2. The performance standards & procedures followed in the company			
organization and	KA3. Reporting structure in the company			









Assist in regular maintenance of the batching plant

	Assist in regular maintenance of the batching plant				
its processes)	KA4. Location of tools				
	KA5. Contact person in case of queries on procedure or products				
	KA6. Location and process for storage and disposal of waste material				
	KA7. Safety policy of the company				
B. Technical	The user/individual on the job needs to know and understand:				
Knowledge	KB1. Different types of mixers such as				
Kilowicube	- Non-tilting reversible drum concrete mixer				
	- Double conical tilting mixer				
	- Pan mixer				
	- Turbo pan mixer				
	- Single shaft/twin shaft compulsory mixer/pug mill				
	KB2. Different types of batching equipment such as manual, semi-automatic				
	and automatic				
	KB3. Types of cements materials used				
	KB4. Number and size of silos				
	KB5. Different methods of feeding cement using bucket elevator, screw				
	conveyor and pneumatic system				
	KB6. Different admixtures that are added to concrete mixes, such as				
	aerators, retarders super plasticizers, accelerators, colours water				
	reducers fiber mesh etc.				
	KB7. Basic tools such as screw driver, hammer, assorted wrenches, grease				
	gun, hand scraper, tape measure, sledge hammer, multi-meter, shovel,				
	etc.				
	KB8. The location and procedure of using the emergency stop button				
	KB9. Basic procedures for operating a batching plant				
	KB10. Response to emergencies e.g. correct way to use fire extinguisher				
Skills (S)					
A. Core Skills /	Writing Skills				
Generic Skills	The user/ individual on the job needs to know and understand how to:				
	SA1. Record any deviations/ incidents as per prescribed norms				
	Reading Skills				
	The user/ individual on the job needs to know and understand how to:				
	SA2. Read and comprehend basic English and regional language as				
	applicable to read manuals of operations, guidelines, etc.				
	Oral Communication (Listening and Speaking Skills)				
	The user/ individual on the job needs to know and understand how to:				
	SA3. Use correct technical terms while interacting with operator/ supervisor				
B. Professional Skills	Decision Making				
	The user/ individual on the job needs to know and understand how to:				
	SB1. Assist in deciding when to conduct maintenance checks				
	Plan and Organize				
	The user/ individual on the job needs to know and understand how to:				
	SB2. Work with supervisors/ team mates to carry out work related tasks				
	SB3. Plan work according to the required schedule and location				
	Customer Centricity				
	·				
	The user/individual on the job needs to know and understand how to:				

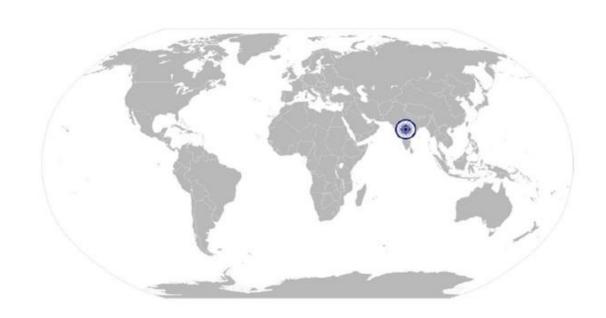






Assist in regular maintenance of the batching plant

SB4.	SB4. Provide service of the highest order to ensure customer satisfaction			
Proble	Problem Solving			
The us	ser/ individual on the job needs to know and understand how to:			
SB5.	Judge when to seek assistance from operator/supervisor			
Analyt	Analytical Thinking			
The us	The user/ individual on the job needs to know and understand how to:			
SB6.	SB6. Identify cause and effect relations in his area of work			
Critical Thinking				
The us	ser/ individual on the job needs to know and understand how to:			
SB7.	Analyse, evaluate and apply the information gathered from			
	observation, experience, reasoning, or communication to act efficiently			











Assist in regular maintenance of the batching plant

NOS Version Control

NOS Code	IES/N0151					
Credits(NSQF)	TBD	TBD Version number 1.0				
Sector	Infrastructure Equipment	Drafted on	14/04/16			
Industry Sub-sector	Equipment Operations	Last reviewed on	26/04/16			
Occupation	Operator	Next review date	30/04/18			

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Comply with worksite health and safety guidelines

National Occupational Standard



Overview

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







Comply with worksite health and safety guidelines

	Comply with worksite health and safety guidelines					
Unit C	Code	IES/N7601				
Unit T	Title (Task)	Comply with worksite health and safety guidelines				
Descr	iption	This unit is about adhering to health and safety requirements at the worksite				
		during equipment operations.				
Scope		This unit/task covers the following:				
•		·				
		Worksite health and safety				
		·				
Perfo	rmance Criteria(PC	C) w.r.t. the Scope				
Elem	ent	Performance Criteria				
Work	site health and	To be competent, the user/individual on the job must be able to:				
safety	1	PC1. Comply with safety, health, security and environment related				
		regulations/ guidelines at the work site				
		PC2. Use Personal Protective Equipment (PPE) and other safety gear as				
		applicable to the equipment and the worksite				
		PC3. Follow safety measures during operations to ensure that the health				
		and safety of self or others (including members of the public) is not at				
		risk				
		PC4. Carry out operations as per the manufacturer's and worksite related				
		health and safety guidelines				
		PC5. Handle the transport, storage and disposal of hazardous materials and				
		waste in compliance with worksite health, safety and environmental				
		guidelines				
		Operate various grades of fire extinguishers, as applicable				
		PC7. Support in administering basic first aid and report to concerned team				
		members, as required, in case of an accident				
		PC8. Respond promptly and appropriately to an accident/ incident or				
		emergency situation, within limits of your role and responsibility				
		PC9. Record and report details related to operations, incidents or accidents,				
		as applicable				
Know	ledge and Underst	anding (K)				
A. O	rganizational	The user/individual on the job needs to know and understand:				
Co	ontext	KA1. Health, safety, environmental(HSE) and security related policies/				
(K	(nowledge of the	guidelines of the organization and the worksite and its importance				
cc	ompany /	KA2. Personnel responsible for Health, Safety and environment (HSE)				
or	rganization and	related matters and their contact details				
its	s processes)	KA3. Location of worksite storage, HSE team and safe assembly points				
		KA4. Reporting and documentation procedures for HSE and security matters				
B. Te	echnical	The user/individual on the job needs to know and understand:				
Kı	nowledge	KB1. Manufacturer's guidelines related to health and safety requirements				
		KB2. Common types of health, safety, environment and security risks				
		related to the worksite and operations				
		KB3. Types, use and importance of Personal Protective Equipment (PPE) and				
		other safety gear				
		KB4. Safe working practices to avoid common hazards and risks				
		KB5. Guidelines for transport, storage and disposal of hazardous materials				



चारवागेच जयले GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP



National Occupational Standards

	Comply with worksite health and safety guidelines
	 and waste KB6. Types of common hazards and risks at the worksite including fire, electrical, gas emergencies, accidents, incidents, structure collapse, machine breakdown KB7. Knowledge of safe lockdown/ stop of machinery use in case of emergencies and incidents/ accidents KB8. Types of fire extinguishers and their use KB9. Common injuries and appropriate basic first aid treatment e.g. electrical shock, bleeding, wounds, fractures, minor burns, eye injuries
Skills (S)	
A. Core Skills / Generic Skills	Writing Skills The user/ individual on the job needs to know and understand how to: SA1. Document and report any health and safety related incidents/ accidents
	Reading Skills The user/ individual on the job needs to know and understand how to: SA2. The user/ individual on the job needs to know and understand how to: SA3. Read and comprehend basic symbols and signage related health and safety SA4. Read organizational and equipment related health and safety manuals and documents SA5. Read instructions, guidelines/procedures/rules related to the worksite and equipment operations
	Oral Communication (Listening and Speaking Skills)
	The user/ individual on the job needs to know and understand how to: SA6. Give clear instructions to co-workers, subordinates and other personnel SA7. Use correct technical terms while interacting with supervisor
B. Professional Skills	Decision Making
	The user/ individual on the job needs to know and understand how to: SB1. Make an appropriate timely decision in responding to emergencies/accidents in line with organizational/ worksite guidelines SB2. Use correct PPE and other safety gear while at the worksite Plan and Organize
	The user/ individual on the job needs to know and understand how to: SB3. Work with supervisors/ team mates to carry out work related tasks SB4. Plan work according to the required schedule and location
	Customer Centricity
	The user/ individual on the job needs to know and understand how to: SB5. Build and maintain positive and effective relationships with colleagues and customers
	Problem Solving
	The user/ individual on the job needs to know and understand how to: SB6. Seek appropriate assistance from other sources to resolve problems
	Analytical Thinking
	The user/individual on the job needs to know and understand how to:

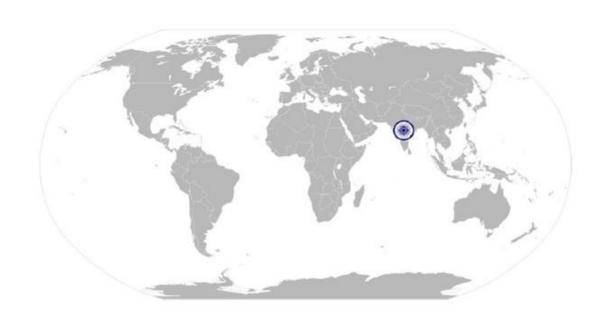






Comply with worksite health and safety guidelines

SB7.	SB7. Assess the intensity of the fire accident and operate fire extinguishers						
Critica	Critical Thinking						
The us	The user/ individual on the job needs to know and understand how to:						
SB8.	Analyse, evaluate and apply the information gathered from						
	observation, experience, reasoning, or communication to act efficiently						









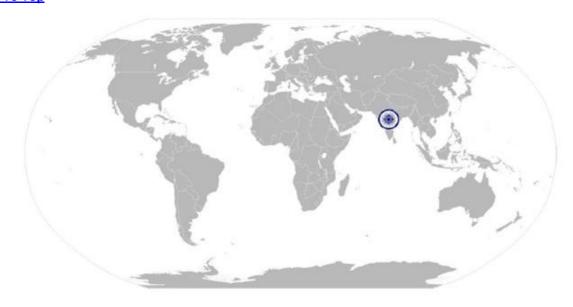


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NOS Version Control

NOS Code	IES/N7601					
Credits(NSQF)	TBD	TBD Version number 1.0				
Sector	Infrastructure Equipment	Drafted on	14/04/16			
Industry Sub-sector	Equipment Operations	Last reviewed on	26/04/16			
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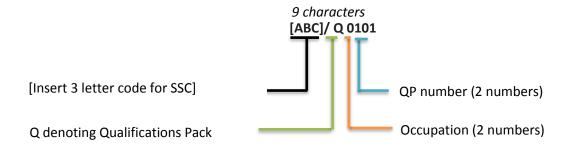




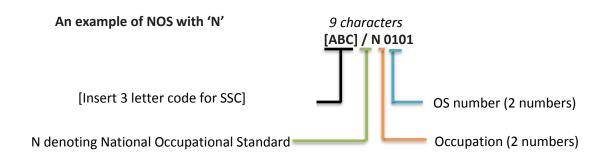
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard



Qualification Pack For Junior Concrete Batching Plant Operator प्राथम GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP



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

Sub-sector	Range of Occupation numbers		
Equipment Operations	1 to 10		
Equipment Service and spares	11 to 20		
Equipment Production	21 to 40		
Equipment Sales	41 to 50		
Equipment Financing	51 to 55		
Core Enablers	56 to 65		
Other Enablers	66 to 75		
Common Occupations	76 to 85		

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



CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Junior Batching Plant Operator

Qualification Pack IES/Q0117

Sector Skill Council IESC

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 40% in each NOS and 50% aggregate.
- 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.

Total Marks:100			Marks Allocation		
Assessment Outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
1. IES/N0149_Assist in carrying pre-operation checks on a batching plant	PC1. Assist in Inspecting oil and filter on air compressor, drain tank manifolds and all water traps as per the procedures set by the manufacturer	35	2	1	1
	PC2. Check the oil level in all gear boxes, hydraulic unit, drum motor oil and autoroll as per instructions from the operator/supervisor		1	0	1

Qualification Pack For Junior Concrete Batching Plant Operator पारामेघ जायते GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP



PC3. Fill all the bins and silos as per instructions from the operator/ supervisor PC4. Check for tensions on all V-drive belts and other belts for wear and tear as per the instructions from the operator/ supervisor PC5. Store the liquid admixtures as per the organizational standards to avoid contamination PC6. Check that admixture dispensers are in good working condition as stated by the operator/ supervisor PC7. Ensure that safety equipment is present and securely mounted as per the organizational standards PC8. Check for wiring damage and loose electrical fitting for the electric drive motors PC9. Turn off mixer motor before carrying out mixer cleaning or chipping PC10. Empty the weigh hoppers from the previous day's operation PC11. Clean the area under plant for spillage and trace source PC12. Check conveyors, boom scrapers and bucket elevators for free running and wear, and adjust as per the instructions from the operator's supervisors PC13. Check all hoppers and doors are in clean and efficient working order PC14. Check tightness of all hydraulic connections and the condition of flexible tubes	1		- 1		
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tupes			2	1	1
	tubes				

Qualification Pack For Junior Concrete Batching Plant Operator पारायोग जायते GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP





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	PC15. Check and remove any cement or concrete build up in the mixer		1	0	1
	PC16. Check dust seals on cement hoppers for wear		3	1	2
	PC17.Check mixer drum for structural cracks or damage		1	0	1
	PC18.Ensure that before work, the machine should have an empty running		2	1	1
	PC19.Assist in maintaining a check/maintenance logbook to record all activities performed before starting the batching plant		1	0	1
	PC20.Report defects precisely to the operator/ supervisor		2	1	1
		Total	35	11	24
2. IES/N0150_Assist in carrying out batching plant operations	PC1. Assist in starting components in correct order as per instructions from the operator/ supervisor		3	1	2
	PC2. Assist in monitoring and regulate materials such as proportions of aggregates, cement, water, and admixtures as per instructions from the operator/ supervisor		3	1	2
	PC3. Use the emergency stop button to disable all power to the batching plant in case of a crisis, as per instructions form the operator/supervisor	30	3	1	2
	PC4. Coordinate with ground personnel, loader operators and truck drivers		3	1	2
	PC5. Ensure that truck is properly positioned under sock to ensure correct direction of the drum		4	1	3

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	PC6. Discharge batched concrete into delivery trucks/mixersas per instructions		3	1	2
	from the operator/ supervisor				
	PC7. Assist in shutting down procedures as per instructions from the operator/ supervisor		3	1	2
	PC8. Wear dust masks when working around the plant		2	0	2
	PC9. Make positive eye contact with other equipment operators at the site before crossing in front of or behind the equipment		3	1	2
	PC10. Wear all PPE while sampling concrete and for all operations		3	1	2
		Total	30	9	21
3. IES/N0151_Assist in regular maintenance of the batching plant	PC1.Clean drum mixer internally as per instructions form the operator/ supervisor		1.5	0.5	1
	PC2.Wash the batching plant externally with water to remove all built-up deposits as per instructions form the operator/ supervisor		1	0	1
	PC3.Lubricate the equipment in different parts as per instructions of the operator	20	1	0	1
	PC4.Replace defective components as per instructions from the operator/ supervisor		1.5	0.5	1
	PC5.Clean the rubber chute that discharges the cement into the mixer as per instructions from the operator/ supervisor		2	1	1

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 IES/N7601_Comply with worksite health and safety guidelines 	PC1. Comply with safety, health, security and environment related regulations/ guidelines at the work site	15	2	1	1
		Total	20	6	14
	PC15.Report and escalate problems/ incidents as required in a timely manner		1.5	0.5	1
	PC14.Follow reporting procedures as laid down by the employer		2	1	1
	PC13.Handle and dispose waste based on environmental guidelines at the work place		1	0	1
	PC12Clean magnetic oil plugs during each oil change as per instructions from the operator/ superviso		1.5	0.5	1
	PC11.Replace the defective parts are replaced immediately as per instructions from the operator/ supervisor		1.5	1	0.5
	PC10.Turn off the mains power from panel completely before carrying out maintenance work		1	0	1
	PC9.Adjust tension of the chain and scoops unit as per instructions from the operator/ supervisor		1	0	1
	PC8.Blow clean all air filters on air compressor and aeration blowers as per instructions from the operator/ supervisor		1	0	1
	PC7.Adjust all belt wipers as per instructions from the operator/ supervisor		1.5	1	0.5
	PC6.Assist in performing basic housekeeping activities in the control room		1	0	1

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Grand Total		100	31	69
	Total	15	5	10
PC9. Record and report details related to operations, incidents or accidents, as applicable		2	1	1
PC8. Support in administering basic first aid and report to concerned team members, as required, in case of an accident		1	0	1
PC7. Support in administering basic first aid and report to concerned team members, as required, in case of an accident		2	1	1
PC6. Operate various grades of fire extinguishers, as applicable		1	0	1
PC5. Handle the transport, storage and disposal of hazardous materials and waste in compliance with worksite health, safety and environmental guidelines		3	1	2
PC4. Carry out operations as per the manufacturer's and worksite related health and safety guidelines		1	0	1
PC3. Follow safety measures during operations to ensure that the health and safety of self or others (including members of the public) is not at risk		2	1	1
PC2.Use Personal Protective Equipment (PPE) and other safety gear as applicable to the equipment and the worksite instructions form the operator/ supervisor		1	0	1