



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





Contents

- 1. Introduction and Contacts..... Page no. 1
- 2. Qualifications Pack......Page no.2
- 3. OS Units......Page no.2
- 4. Glossary of Key TermsPage no.3
- 5. <u>Annexure- Nomenclature for QP & NOS......</u>

 <u>Page no. 25</u>
- 6. Assessment Criteria.....Page no.27

Introduction

Qualification Pack - Junior Transit Mixer Operator

SECTOR: INFRASTRUCTURE EQUIPMENT

SUB SECTOR: Equipment Operations

OCCUPATION: Operator

REFERENCE ID: IES/Q0119

ALIGNED TO: NCO-2004/NIL

Brief Job Description: A junior transit mixer operator assists the operator in guiding and aligning the vehicle. He assists the operator in loading the required quantity of aggregates, sand and cement as per mix design into the drum and discharge the concrete to the desired location at the site after mixing the batched aggregates.

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 color-blindness.





Qualifications Pack Code	IES/Q0119			
Job Role	Junior Transit Mixer Operator			
Credits(NSQF)	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 Transit Mixer Operator		
Role Description	A junior transit mixer operator assists the operator in guiding and aligning the vehicle. He assists the operator in loading the required quantity of aggregates, sand and cement as per mix design into the drum and discharge the concrete to the desired location at the site after mixing the batched aggregates.		
NSQF level	3		
Minimum Educational Qualifications	Class VIII preferably.		
Maximum Educational Qualifications	NA		
Training	Certification Training in transit mixer operations preferred.		
(Suggested but not mandatory)			
Minimum Job Entry Age	18 years		
Experience	NA		
Applicable National Occupational Standards (NOS)	1. IES/N0155Assist in carrying out Pre-operation checks on a transit mixer 2. IES/N0156Assist in operating a transit mixer 3. IES/N0157Assist in regular maintenance of the transit mixer 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 fulfill 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		
Ĭ	an individual needs in order to perform up to the required standard.		
<u> </u>			

Acronvms





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



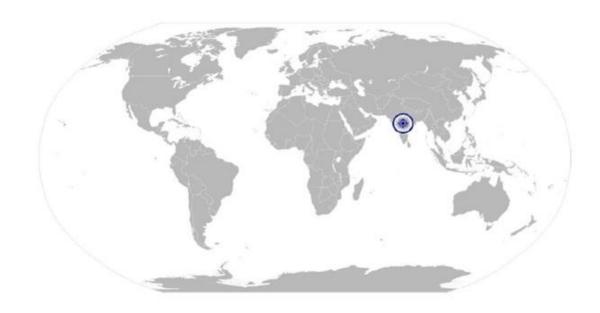




IES/N0155

Assist in carrying out Pre-operation checks on a transit mixer

National Occupational Standard



Overview

This unit provides Performance Criteria, Knowledge & Understanding and Skills & Ability for assisting in activities that need to be carried out to prepare the transit mixer for a shift.







IES/N0155 Assist in carrying out Pre-operation checks on a transit mixer

Unit Code	IES/N0155		
Unit Title (Task)	Assist in carrying out Pre-operation checks on a transit mixer		
Description	This unit provides insight into activities that need to be carried out to prepare the transit mixer for a shift.		
Scope	nis unit/task covers the following:		
	Pre-operation checks		
	Reporting and Documentation		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Pre-operation Checks	 To be competent, the user/individual on the job must be able to: PC1. Visually inspect the body components for cracks and bearing wear PC2. Tighten the wheel nuts firmly on the ground as per instructions from the operator PC3. Assist in checking that oil levels of engine transmission, radiator coolant and brake are as per instructions from the operator PC4. Assist in checking hydraulic oil levels as per instructions from the operator PC5. Check water system for leaks and clean water pump filter as per instructions from the operator PC6. Clean the mixer drum as per instructions from the operator PC7. Lubricate all the moving joints as per instructions from the operator/ 		
	supervisor PC8. Ensure that the area is clear of all personnel and equipment before moving PC9. Assist in conducting checks to ensure proper condition of parking brake, main horn, reverse horn and head light as per instructions from the operator		
Reporting and documentation	PC10. Assist in maintaining a checking/maintenance logbook to record all activities performed before starting the machine PC11. Report defects precisely to the operator if beyond scope of the role		
Knowledge and Unders			
A. Organizational Context (Knowledge of the company / organization and	The user/individual on the job needs to know and understand: KA1. The organization's procedures and guidelines related to breakdown & maintenance services KA2. The performance standards & procedures followed in the company 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 Knowledge	The user/individual on the job needs to know and understand: KB1. Different types of Concrete mixer and their use and function KB2. Components of concrete mixer and its functioning-		







IES/N0155 Assist in carrying out Pre-operation checks on a transit mixer

	- Mixing drum		
	- Loading bucket		
	- Discharge hopper		
	- Discharge chute		
	- Driving turret		
	- Hydraulic pumps		
	- Water system		
	KB3. Introduction to engine transmission, their use and function		
	KB4. Basic electrical functioning and repairs		
	KB5. Different types of hydraulic mechanisms		
	KB6. Steering mechanisms and correct way of steering on slopes		
	KB7. Significance and methods of lubricating different parts of mixer		
	KB8. Procedure of filling diesel, coolant in the machine		
	KB9. The various types of hand signals used on the site		
	KB10. Instrument panel/cabin controls, their location and operation		
	KB11. Controls, levers and switches in order to operate the mixer properly		
	KB12. Optimal engine oil pressure, radiator coolant temperature		
	KB13. Visual checks to identify damage, defects, cracks or leaks beforehand		
	KB14. Response to emergencies e.g. correct way to use fire extinguisher		
Skills (S)	REP II Presponde to entergendes eigi con est may to use the extinguisher		
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.		
	SA3. Comprehend basic sign and symbols at the worksite		
	Oral Communication (Listening and Speaking Skills)		
	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	Decision Making		
D. Troressionar skins	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		
	SB3. Plan work according to the required schedule and location		
	Customer Centricity The user/individual on the job, peeds to know and understand how to:		
	The user/ individual on the job needs to know and understand how to:		
	SB4. Provide service of the highest order to ensure customer satisfaction		
	Problem Solving The user/ individual on the job, peeds to know and understand how to:		
	The user/ individual on the job needs to know and understand how to: SB5. Judge when to seek assistance from operator/supervisor		
	I SOS TUORE WHEN TO SEEK ASSISTANCE TOM ODERATOR/SUDERVISOR		

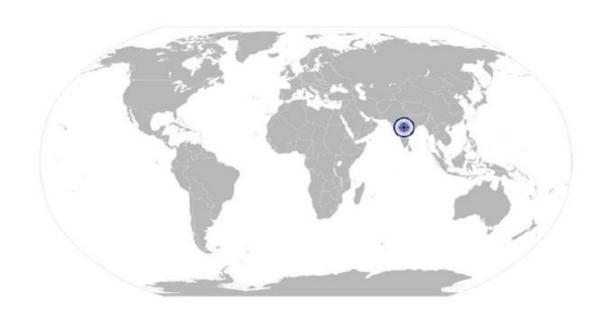






IES/N0155 Assist in carrying out Pre-operation checks on a transit mixer

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









IES/N0155 Assist in carrying out Pre-operation checks on a transit mixer

NOS Version Control

NOS Code	IES/N0155		
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





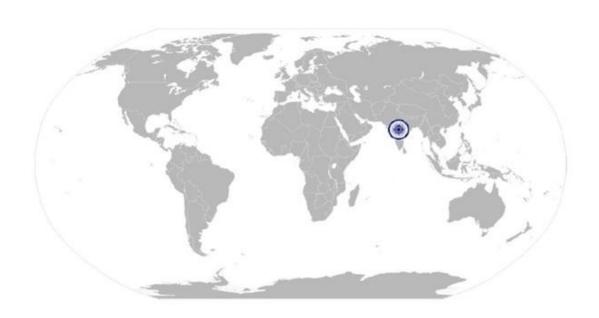






IES/N0156 Assist in operating a transit mixer

National Occupational Standard



Overview

This unit provides Performance Criteria, Knowledge & Understanding and Skills & Ability for activities that are required to assist in operating a transit mixer.







IES/N0156	Assist in operating a transit mixer			
Unit Code	IES/N0156			
Unit Title (Task)	Assist in operating a transit mixer			
Description	This unit provides Performance Criteria, Knowledge & Understanding and Skills			
	& Ability for activities that are required to assist in operating a transit mixer.			
Scope	This unit/task covers the following:			
	Loading of materials			
	Discharging concrete			
Performance Criteria(P				
Element	Performance Criteria			
Loading of materials	To be competent, the user/individual on the job must be able to:			
	PC1. Check for loose soil, hidden deep trenches or marshy patches where a			
	mixer could get stuck			
	PC2. Fill water tanks ready for daily use as per instructions from the			
	operator/ supervisor			
	PC3. Check for hazards and risks, and ensure safety of self, other personnel and equipment			
	PC4. Remove the obstacles if any during the loading process per instructions			
	from the operator			
	PC5. Assist in loading correct proportions of aggregates, cement, water and			
	admixtures			
	PC6. Check for correct direction of drum rotation during mixing as per			
	instructions form the operator			
	PC7. Guide the operator in keeping a safe distance from other vehicles			
Discharging concrete	PC8. Guide the operator in parking the transit mixer on firm, level ground			
	PC9. Assist in determining a position for discharging the concrete safely and			
	as per instructions from the operator			
	PC10. Assist the operator in discharge of concrete to the desired location			
	PC11. Clean the bucket, drum and concrete-skid as per the instructions from			
	the operator			
	PC12. Assist in removing attachments after use as per instructions from the			
	operator			
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			
	KAS. Contact person in case of queries on procedure or products			
	KA6. Location and process for storage and disposal of waste materialKA7. Safety policy of the company			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	KB1. Various type and grade of materials- cement, aggregates, sand,			
Kilowieuge	TRDE. Various type and grade of materials- terment, aggregates, sallu,			

admixture etc.









IES/N0156	Assist in operating a transit mixer		
	KB2. Types of lubricants		
	KB3. Different types of Concrete mixer, their use and function		
	KB4. Machine capacities and features such as speed rate, braking, steering,		
	stability and load		
	KB5. Components of concrete mixer and its functioning-		
	- Mixing drum		
	- Loading bucket		
	- Discharge hopper		
	- Discharge chute		
	- Driving turret		
	- Hydraulic pumps		
	KB6. Steering mechanisms and correct way of steering on slopes		
	KB7. Significance and methods of lubricating different parts of mixer		
	KB8. The various types of hand signals used on the site and road		
	KB9. Controls, levers and switches in order to operate the mixer properly		
	KB10. Optimal engine oil pressure, radiator coolant temperature		
	KB11. Response to emergencies		
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.		
	SA3. Interpret stakes and signage on the road and during worksite		
	operations		
	Oral Communication (Listening and Speaking Skills)		
	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	Decision Making		
	The user/ individual on the job needs to know and understand how to:		
	SB1. Assess for any damage/faulty component in the transit mixer		
	SB2. Decide when to perform appropriate driving operations i.e. forward,		
	reverse, 'U' turn, tight spot		
	Plan and Organize		
	The user/ individual on the job needs to know and understand how to:		
	SB3. Work with operators/ 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. 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:		
	SB6. Judge when to seek assistance from operator/supervisor		



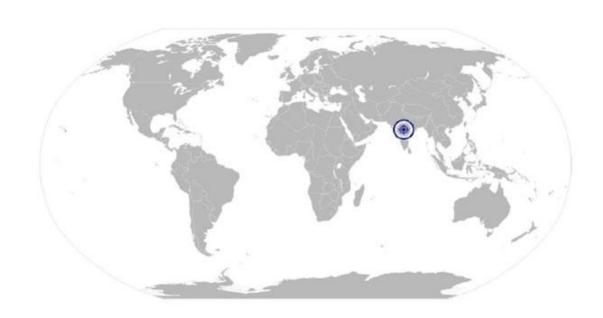






IES/N0156 Assist in operating a transit mixer

	Analytical Thinking The user/ individual on the job needs to know and understand how to: SB7. Suggest methods to avoid accidents/errors while operating machine			
	Critical Thinking			
	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			











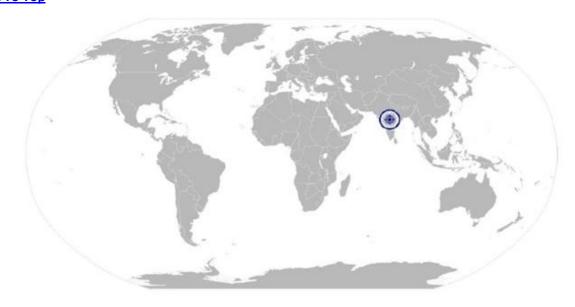
IES/N0156

Assist in operating a transit mixer

NOS Version Control

NOS Code	IES/N0156		
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

Back To Top







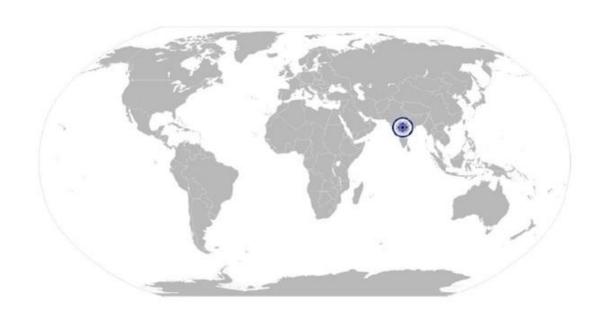




IES/N0157

Assist in regular maintenance of the transit mixer

National Occupational Standard



Overview

This unit provides Performance Criteria, Knowledge & Understanding and Skills & Ability for activities that are required to assist in performing routine maintenance and troubleshooting on the transit mixer.







IES/N0157	Assist in regular maintenance of the transit mixer					
Unit Code	IES/N0157					
Unit Title (Task)	Assist in regular maintenance of the transit mixer					
Description	This unit insight into activities that are required to assist in performing routine maintenance and troubleshooting on the transit mixer.					
Scope	This unit/task covers the following:					
	Routine maintenance					
	Basic diagnostics and troubleshooting					
	Documentation and Reporting					
Performance Criteria(Po	Clust the Scane					
Element	Performance Criteria					
Routine Maintenance	To be competent, the user/individual on the job must be able to: PC1. Clean footplates, pedals and steps free from mud, dirt, ice and snow at					
	regular intervals					
	PC2. Check and maintain the tire rims, air pressure, wheel nuts and treads					
	as per instructions from the operator					
	PC3. Replenish coolants, lubricants and fluids everyday as per instructions					
	from the operator					
	C4. Lubricate all the moving joints in the mixer as per the instructions from					
	the operator/ supervisor					
	. Clean and adjust windows mirror gights and reflectors daily as per					
	instructions from the operator/ supervisor					
	PC6. Assist in checking battery levels and condition of the terminals as per					
	instructions from the operator/ supervisor					
	PC7. Adjust alternator belt tension and feed pump while engine is off PC8. Keep the tools in the appropriate place after use					
Basic Diagnostics and	PC8. Keep the tools in the appropriate place after use PC9. Assist in ensuring the machine is on firm and level ground before					
Troubleshooting	attempting to carry out any maintenance; track machine operating					
Troubleshooting	hours to assess the right service schedule					
	PC10. Ensure that bucket arm is lowered before any maintenance operations					
	PC11. Handle and dispose waste based on environmental guidelines at the					
	work place					
	PC12. Comply with safety requirements such as confined space, lock-out					
	procedures					
Documentation and	PC13. Assist in maintaining records and documentation relating to service,					
Reporting	such as log books, repair lists, etc.					
	PC14. Follow reporting procedures as laid down by the employer					
Knowledge and Unders						
A. Organizational Context	The user/individual on the job needs to know and understand: KA1. Job specific documents e.g. daily maintenance checklist and					
(Knowledge of the	KA1. Job specific documents e.g. daily maintenance checklist and importance of the same					
company /	KA2. Common hazards in the work area and workplace procedures to deal					
organization and	with them					
its processes)	KA3. Safety policy of the company					
p. 0 3033037	KA4. Emergency organization of the specific work site					
	1					









KA5. Risk and impact of not following defined procedures/work instructions KA6. The performance standards & procedures followed in the company KA7. Reporting structure in the company KA8. Timeframe in which the complaint/problem should be resolved KA9. Implications of delays in process to the company KA10. Location of tools KA11. Contact person in case of queries on procedure or products KA12. Location and process for storage and disposal of waste material B. Technical Knowledge KB1. Responsibilities of the assigned job role
KA7. Reporting structure in the company KA8. Timeframe in which the complaint/problem should be resolved KA9. Implications of delays in process to the company KA10. Location of tools KA11. Contact person in case of queries on procedure or products KA12. Location and process for storage and disposal of waste material B. Technical Knowledge KB1. Responsibilities of the assigned job role
KA8. Timeframe in which the complaint/problem should be resolved KA9. Implications of delays in process to the company KA10. Location of tools KA11. Contact person in case of queries on procedure or products KA12. Location and process for storage and disposal of waste material B. Technical The user/individual on the job needs to know and understand: Knowledge KB1. Responsibilities of the assigned job role
KA9. Implications of delays in process to the company KA10. Location of tools KA11. Contact person in case of queries on procedure or products KA12. Location and process for storage and disposal of waste material The user/individual on the job needs to know and understand: Knowledge KB1. Responsibilities of the assigned job role
KA10. Location of tools KA11. Contact person in case of queries on procedure or products KA12. Location and process for storage and disposal of waste material The user/individual on the job needs to know and understand: Knowledge KB1. Responsibilities of the assigned job role
KA11. Contact person in case of queries on procedure or products KA12. Location and process for storage and disposal of waste material B. Technical The user/individual on the job needs to know and understand: Knowledge KB1. Responsibilities of the assigned job role
KA12. Location and process for storage and disposal of waste material B. Technical The user/individual on the job needs to know and understand: Knowledge KB1. Responsibilities of the assigned job role
B. Technical The user/individual on the job needs to know and understand: Knowledge KB1. Responsibilities of the assigned job role
Knowledge KB1. Responsibilities of the assigned job role
KB2. Control and switches needed to operate the transit mixer
appropriately
KB3. Basic physics and mechanics involved in various functions of the transit
mixer
KB4. Common defects and general causes of breakdown
KB5. Response to emergency situations
KB6. The optimal levels of control indicators e.g. fuel gauge, engine oil
pressure and temperature
KB7. Possible sources of any unusual sound emanating from the engine
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 basic English and regional language as applicable to understand
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. Use appropriate tools during repairs and maintenance
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
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:
SB4. 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:
SB5. Judge when to seek assistance from operator/supervisor
Analytical Thinking
The user/ individual on the job needs to know and understand how to:



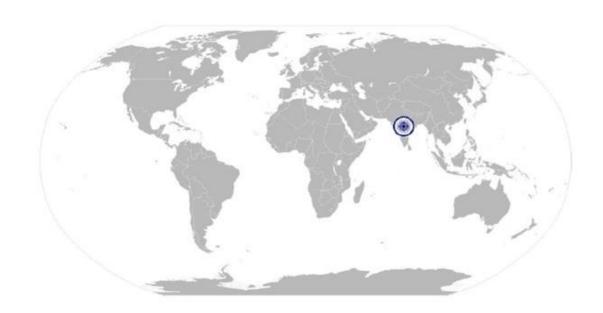






IES/N0157 Assist in regular maintenance of the transit mixer

SB6. Check for damages and diagnose common problems in the mixer and		
report to the operator		
Critical Thinking		
The user/individual on the job needs to know and understand how to:		
SB7. Analyze, evaluate and apply the information gathered from observation,		
experience, reasoning, or communication to act efficiently		







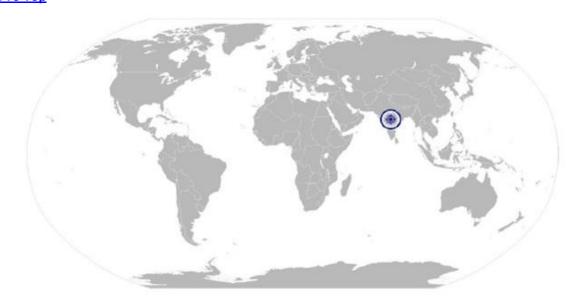




IES/N0157 Assist in regular maintenance of the transit mixer NOS Version Control

NOS Code	IES/N0157			
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	

Back To Top







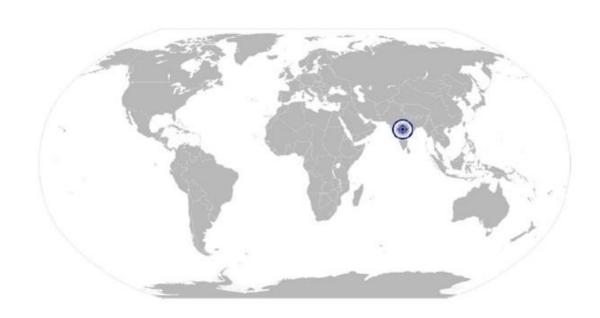




IES/N7601

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.







IES/N7601	Comply with worksite health and safety guidelines				
Unit Code	IES/N7601				
Unit Title (Task)	Comply with worksite health and safety guidelines				
Description	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				
Performance Criteria(Po					
Element	Performance Criteria				
Worksite health and	To be competent, the user/individual on the job must be able to:				
safety	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 bealth, safety and environmental guidelines				
	PC6. 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				
Knowledge and Unders					
A. Organizational	The user/individual on the job needs to know and understand:				
Context	KA1. Health, safety, environmental(HSE) and security related policies/				
(Knowledge of the	guidelines of the organization and the worksite and its importance				
company /	KA2. Personnel responsible for Health, Safety and environment (HSE)				
organization and	related matters and their contact details				
its processes)	KA3. Location of worksite storage, SHE team and safe assembly points				
	KA4. Reporting and documentation procedures for HSE and security matters				
B. Technical	The user/individual on the job needs to know and understand:				
Knowledge	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				
	lunger of the first transfer that the state of the state				

KB5. Guidelines for transport, storage and disposal of hazardous materials









IES/N7601	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 eg. electrical shock, bleeding, wounds, fractures, minor burns, eye injuries				
Skills (S)	144 141 GI III				
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. Read and comprehend basic English to read manuals of operations SA3. Read all organizational and equipment related health and safety manuals and documents SA4. 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: SA5. Give clear instructions to co-workers, subordinates and other personnel SA6. 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. 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 operators/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:				
	SB7. Assess the intensity of the fire accident and operate fire extinguishers				

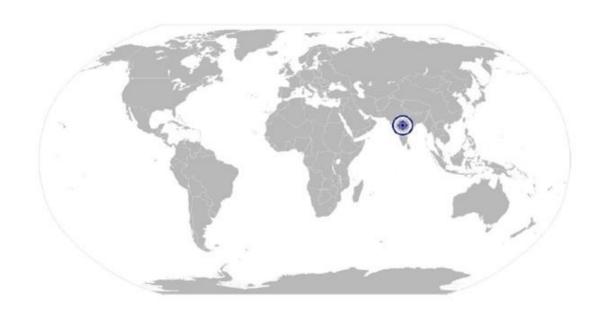






IES/N7601 Comply with worksite health and safety guidelines

Critical Thinking
The user/ individual on the job needs to know and understand how to:
SB8. Analyze, evaluate and apply the information gathered from observation,
experience, reasoning, or communication to act efficiently







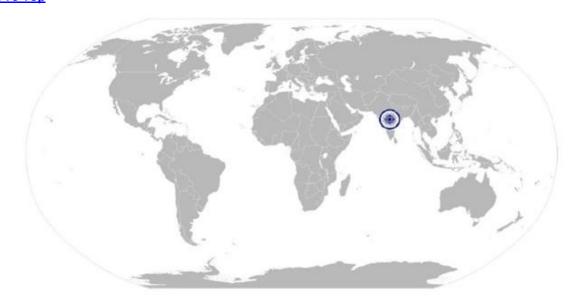




IES/N7601 Comply with worksite health and safety guidelines NOS Version Control

NOS Code	IES/N7601			
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	

Back To Top



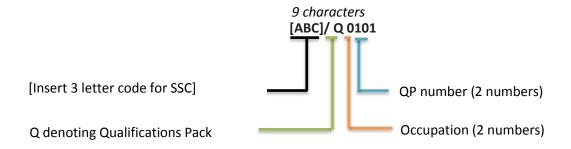




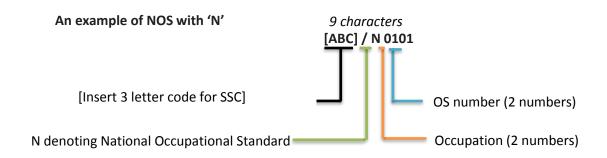
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard







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

Sub-sector	Range of Occupation numbers
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 Transit Mixer Operator

Qualification Pack IES/Q0119

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
IES/N0155 Assist in carrying out pre-operation checks on a Transit mixer	PC1. Visually inspect the body components for cracks and bearing wear	35	3	1	2
	PC2. Tighten the wheel nuts firmly on the ground as per instructions from the operator		3	1	2
	PC3. Assist in checking that oil levels of engine transmission, radiator coolant and brake are as per instructions from the operator		4	1	3





	T				
	PC4. Assist in checking hydraulic oil				
	levels as per instructions from the		3	1	2
	operator				
	PC5. Check water system for leaks				
	and clean water pump filter as per		3	1	2
	instructions from the operator				
	200 01 11 1				
	PC6. Clean the mixer drum as per		4	1	3
	instructions from the operator			_	
	PC7. Lubricate all the moving joints		2	4	2
	as per instructions from the operator/		3	1	2
	supervisor				
	PC8. Ensure that the area is clear of				
	all personnel and equipment before		3	1	2
	moving				
	PC9. Assist in conducting checks to				
	ensure proper condition of parking				
	brake, main horn, reverse horn and head		3	1	2
	light as per instructions from the				
	operator				
	PC10. Assist in maintaining a				
	checking/maintenance logbook to		2	4	2
	record all activities performed before		3	1	2
	starting the machine				
	2011				
	PC11. Report defects precisely to the		3	1	2
	operator if beyond scope of the role				
		Total	35	11	24
2 150/20456 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PC1. Check for loose soil, hidden		1		
2. IES/N0156 Assist in operating a	deep trenches or marshy patches where		1	0	1
transit mixer	a mixer could get stuck				
	PC2. Fill water tanks ready for daily	20	2	0	_
	use as per instructions from the	30	2	0	2
	operator/ supervisor				
	PC3. Check for hazards and risks, and				
	ensure safety of self, other personnel		3	1	2
	and equipment				





	1		1		1
	PC4. Remove the obstacles if any during the loading process per instructions from the operator		4	2	2
	mistractions from the operator				
	PC5. Assist in loading correct				
	proportions of aggregates, cement,		3	1	2
	water and admixtures				
	PC6. Check for correct direction of				
	drum rotation during mixing as per		2	0	2
	instructions form the operator		2	U	2
	instructions form the operator				
	PC7. Guide the operator in keeping a				
	safe distance from other vehicles		3	2	1
	PC8. Guide the operator in parking				
	the transit mixer on firm, level ground		3	1	2
	PC9. Assist in determining a position				
	for discharging the concrete safely and		1	0	1
	as per instructions from the operator		_	Ü	_
	as per monaccions nom the operator				
	PC10. Assist the operator in discharge				
	of concrete to the desired location s		2	0	2
	PC11. Clean the bucket, drum and				
	concrete-skid as per the instructions		3	1	2
	from the operator				
	DC12 Assist in removing attachments				
	PC12. Assist in removing attachments		3	1	2
	after use as per instructions from the operator		3	1	2
	operator				
		Total	30	9	21
	PC1. Clean footplates, pedals and				
3. IES/N0157 Assist in regular	steps free from mud, dirt, ice and snow		1	0	1
maintenance of the transit mixer	at regular intervals		1	U	1
		20			
	PC2. Check and maintain the tire				
	rims, air pressure, wheel nuts and treads		2	1	1
	as per instructions from the operator				
	·				





PC3. Replenish coolants, lubricants and fluids everyday as per instructions from the operator	1	0	1
PC4. Lubricate all the moving joints in the mixer as per the instructions from the operator/ supervisor	2	1	1
PC5. Clean and adjust windows mirrors, lights and reflectors daily as per instructions from the operator/ supervisor	1	0	1
PC6. Assist in checking battery levels and condition of the terminals as per instructions from the operator/ supervisor	1	0	1
PC7. Adjust alternator belt tension and feed pump while engine is off	2	1	1
PC8. Keep the tools in the appropriate place after use	2	1	1
PC9. Assist in ensuring the machine is on firm and level ground before attempting to carry out any maintenance; track machine operating hours to assess the right service schedule	1	0	1
PC10. Ensure that bucket arm is lowered before any maintenance operations	2	1	1
PC11. Handle and dispose waste based on environmental guidelines at the work place	1	0	1
PC12. Comply with safety requirements such as confined space, lock-out procedures	2	1	1
PC13. Assist in maintaining records and documentation relating to service, such as log books, repair lists, etc.	1	0	1





	PC14. Follow reporting procedures as				
	laid down by the employer		1	0	1
		Total	20	6	14
4. 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
	PC2. Use Personal Protective Equipment (PPE) and other safety gear as applicable to the equipment and the worksite		2	1	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	0	2
	PC4. Carry out operations as per the manufacturer's and worksite related health and safety guidelines		1	0	1
	PC5. Handle the transport, storage and disposal of hazardous materials and waste in compliance with worksite health, safety and environmental guidelines		2	1	1
	PC6. Operate various grades of fire extinguishers, as applicable		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
	PC8. Respond promptly and appropriately to an accident/incident or emergency situation, within limits of your role and responsibility		1	0	1





	PC9. Record and report details related to operations, incidents or accidents, as applicable		2	1	1
		Total	15	5	10
Grand Total		100	31	69	