





# QUALIFICATION PACK – OCCUPATIONAL STANDARD FOR INFRASTRUCTURE EQUIPMENT INDUSTRY

# What are Occupational Standards(OS)?

- Solution OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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# Introduction

# **Qualification Pack - Transit Mixer Operator**

**SECTOR:** INFRASTRUCTURE EQUIPMENT

**SUB SECTOR:** Equipment Operations

**OCCUPATION:** Operator

**REFERENCE ID:** IES/Q0118

**ALIGNED TO:** NCO-2004/8212.30

**Brief Job Description**: A transit mixer operator drives and controls the mixer operations safely and as per schedule. He is responsible for 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:** The 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/Q0118			
Job Role		Transit Mixer 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	Operator Next review date 30/04/18			
NSQC Clearance on	NA	NA			

Job Role	Transit Mixer Operator		
Role Description	A transit mixer operator drives and controls the mixer operations safely and as per schedule. He is responsible for 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	4		
Minimum Educational Qualifications	Class VIII preferably for existing operators and Class X for fresh operators		
Maximum Educational Qualifications	NA		
Training (Suggested but not mandatory)	Certification Training in transit mixer operations preferably Must have valid Light Commercial Vehicle Driving License (LCV).		
Minimum Job Entry Age	18 Years		
Experience	Preferably 2 years of experience as junior transit mixer operator		
Applicable National Occupational Standards (NOS)	1. IES/N0152Carry out Pre-operation checks on a transit mixer 2. IES/N0153Operate a transit mixer 3. IES/N0154Perform routine maintenance and troubleshooting of a transit mixer 4. IES/N7601Comply with worksite health and safety guidelines  Optional: N.A.		
Performance Criteria	As described in the relevant OS units		









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 away 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 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.  NoS are Occupational Standards which apply uniquely in the Indian context.  Qualifications Pack Code  Qualifications Pack Code  Unit Code Unit Code is a unique reference code that identifies a qualifications pack.  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 spec	Keywords /Terms	Description		
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an individual needs in order to perform up to the required standard.		an individual needs in order to perform up to the required standard.		







Acronyms

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







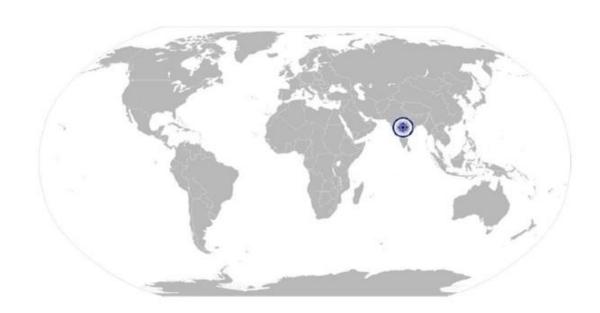




IES/N0152

Carry out Pre-operation checks on a transit mixer

# National Occupational Standard



# **Overview**

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







#### **National Occupational Standards**

# IES/N0152 Carry out Pre-operation checks on a transit mixer

Unit Code	IES/N0152		
Unit Title (Task)	Carry out Pre-operation checks on a transit mixer		
Description	This unit insight into activities that need to be carried out to perform pre-check and prepare the transit mixer for a shift		
Scope	This unit/task covers the following:		
	<ul><li>Pre-operation checks</li><li>Reporting and documentation</li></ul>		
Performance Criteria(PC	) 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. Check if tyre inflation pressure corresponds to that prescribed norms of the manufacturer PC3. Ensure that wheel nuts are firmly tightened as per prescribed norms of the manufacturer PC4. Check oil levels of engine transmission, radiator coolant and brake PC5. Check hydraulic oil levels as per the prescribed norms of the manufacturer PC6. Check water system for leaks and clean water pump filter per the prescribed norms of the manufacturer PC7. Drain water and sediment from the fuel tank as per operational manual PC8. Ensure that the mixer drums are clean and free from concrete PC9. Ensure not to fill the fuel tank while engine is running PC10. Check battery electrolyte level as per the prescribed norms of the manufacturer PC11. Check electronic weighing system for any malfunctioning PC12. Apply grease to all grease nipples as per the prescribed norms of the manufacturer PC13. Ensure that the area is clear of all personnel and equipment before moving the equipment PC14. Ensure driver's seat, steps and handles are always clean and free from any foreign object or grease trials, oil mud and unfastened objects in the cabin PC15. Ensure proper condition of parking brake, main horn, reverse horn and		
	head light		
	PC16. Check all protection and safety for appropriate position for operation		
Reporting and	PC17. Maintain a checking/maintenance logbook to record all activities		
documentation	performed before starting the machine		
Knowledge and Undered	PC18. Report defects precisely to the supervisor if beyond scope of the role		
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 &		









# IES/N0152 Carry out Pre-operation checks on a transit mixer

111	C . I	<del></del>		
(Knowledge		maintenance services		
company /	KA2.	The performance standards & procedures followed in the company		
organization		Reporting structure in the company		
its processe		Timeframe in which the complaint/problem should be resolved		
	KA5.	Location of tools		
	KA6.	Contact person in case of queries on procedure or products		
	KA7.	Location and process for storage and disposal of waste material		
	KA8.	Safety policy of the company		
B. Technical	The use	er/individual on the job needs to know and understand:		
Knowledge	KB1.	Different types of concrete mixer and their use and function		
	KB2.	Components of concrete mixer and its functioning-		
		- 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.	No. 10 April		
	KB9.			
		The second of th		
		KB10. Instrument panel/cabin controls, their location and operation		
		KB11. Controls, levers and switches in order to operate the mixer properly		
		312. Optimal engine oil pressure, radiator coolant temperature		
		(B13. Visual checks to identify damage, defects, cracks or leaks beforehand		
OL III. (O)	KB14.	Response to emergencies e.g. correct way to use fire extinguisher		
Skills (S)				
A. Core Skills /				
Generic Skil		er/ individual on the job needs to know and understand how to:		
	SA1.	Record any deviations/ incidents as per prescribed norms		
	Readin	-		
	The use	er/ 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 Co	Oral Communication (Listening and Speaking Skills)		
	The use	er/ individual on the job needs to know and understand how to:		
	SA4.	Give clear instructions to co-workers, subordinates and other		
		personnel		
	SA5.	Use correct technical terms while interacting with supervisor		
	5, 15.	222 22. 222 Common Common Mediadam S William Super 1.301		









# IES/N0152 Carry out Pre-operation checks on a transit mixer

B. Professional Skills	Decision Making		
	The user/ individual on the job needs to know and understand how to:		
	SB1. Decide 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		
	SB4. Plan for cleaning and lubricating the activities every day		
	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. Identify immediate or temporary solutions to resolve mechanical issues		
	SB7. Judge when to seek assistance from supervisor		
	Analytical Thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB8. 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:		
	SB9. Analyse, evaluate and apply the information gathered from		
	observations, experience, reasoning, or communication to act efficiently		









IES/N0152

## Carry out Pre-operation checks on a transit mixer

# **NOS Version Control**

NOS Code	IES/N0152		
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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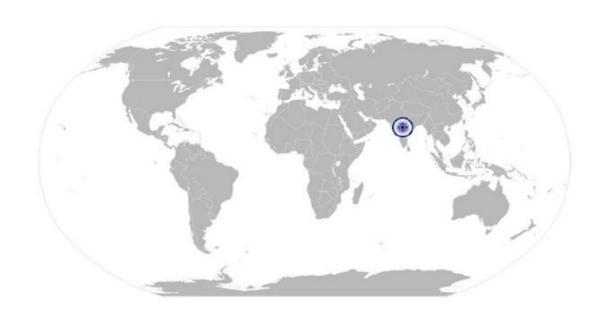




IES/N0153

Operate a transit mixer

# National Occupational Standard



# **Overview**

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







#### **National Occupational Standards**

IES/N0153 Operate a transit mixer

IES/N0153	Operate a transit mixer		
Unit Code	IES/N0153		
Unit Title (Task)	Operate a transit mixer		
Description	This unit provides insight into activities that are required for operating a transit mixer.		
Scope	This unit/task covers the following:		
	<ul> <li>Mixer operations</li> <li>Shutdown procedures</li> <li>Reporting and documentation</li> </ul>		
Performance Criteria(Po	C) w.r.t. the Scope		
Element	Performance Criteria		
Mixer operations	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC1. Plan and organize the job according to instructions from the supervisor</li> <li>PC2. Inspect the worksite to identify and loose soil hidden deep trenches or marshy patches where a mixer could get stuck</li> <li>PC3. Fill water tanks ready for daily use as per organizational standards</li> <li>PC4. Carry out all peruse and running checks as per organizational standards</li> <li>PC5. Wear seat belt and adjust seat position to one's comfort</li> <li>PC6. Start the engine using the starting key</li> <li>PC7. Ensure parking brake is engaged and electric gear selector is in neutral position before starting the engine</li> <li>PC8. Select appropriate type of steering mechanism as per the situational requirements</li> <li>PC9. Load correct proportions of aggregates, cement, water and admixtures as per the production requirements</li> <li>PC10. Ensure mixer load and operating speed is within specified limits as per the manufacturer's</li> <li>PC11. Adjust the direction of drum rotation for mixing as per the requirement</li> <li>PC12. Adjust the concrete chute to the discharge position</li> <li>PC13. Discharge concrete to the desired location at the site</li> <li>PC14. Use the emergency stop button to disable all power to the transit mixer in case of a crisis as per operational manual</li> </ul>		
Shut down	PC15. Turn off ignition after finishing operations as per the instructions given		
procedures	in the instructional manual		
	PC16. Ensure gear is in neutral position post usage		
	PC17. Ensure bucket drum and concrete-skid are cleaned as per the		
	manufacturer's instructional manual		
	PC18. Remove attachments after use		
Reporting and	PC19. Ensure that the machine is secured when left unattended PC20. Maintain a production logbook to record all activities performed		
documentation	PC21. Report defects precisely to the supervisor if beyond scope of the role		
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		
(			







#### **National Occupational Standards**

IES/N0153	Operate a transit mixer		
company /	KA2. The performance standards & procedures followed in the company		
organization and	KA3. Reporting structure in the company		
its processes)	KA4. Timeframe in which the complaint/problem should be resolved		
	KA5. Location of tools		
	KA6. Contact person in case of queries on procedure or products		
	KA7. Location and process for storage and disposal of waste material		
	KA8. 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,		
	admixture etc.		
	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		
	- Water system		
	KB6. Introduction to engine transmission, their use and function		
	KB7. Basic electrical functioning and repairs		
	KB8. Different types of hydraulic mechanisms		
	KB9. Steering mechanisms and correct way of steering on slopes		
	KB10. Significance and methods of lubricating different parts of mixer		
	KB11. Procedure of filling diesel, coolant in the machine		
	KB12. The various types of hand signals used on the site and road		
	KB13. Instrument panel/cabin controls, their location and operation		
	KB14. Controls, levers and switches in order to operate the mixer properly		
	KB15. Optimal engine oil pressure, radiator coolant temperature		
	KB16. Visual checks to identify damage, defects, cracks or leaks beforehand		
	KB17. 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.		
	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:		
	The aser, maintagaron the job needs to know and understand now to.		









# IES/N0153 Operate a transit mixer SA4. Give clear instructions to co-worke

Sperment and a service and a s				
	SA4. Give clear instructions to co-workers, subordinates and other personnel			
	SA5. 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. Assess for any damage/faulty component in the transit mixerand take			
	action accordingly			
	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 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. Identify immediate or temporary solutions to resolve mechanical issues			
	SB7. Judge when to seek assistance from supervisor			
	Analytical Thinking			
	The user/ individual on the job needs to know and understand how to:			
	SB8. Identify possible ways to improve operational efficiency			
	SB9. Suggest methods to avoid accidents/errors while operating machine			
	Critical Thinking			
	The user/individual on the job needs to know and understand how to:			
	SB10. Analyse, evaluate and apply the information gathered from			
	observation, experience, reasoning, or communication to act efficiently			







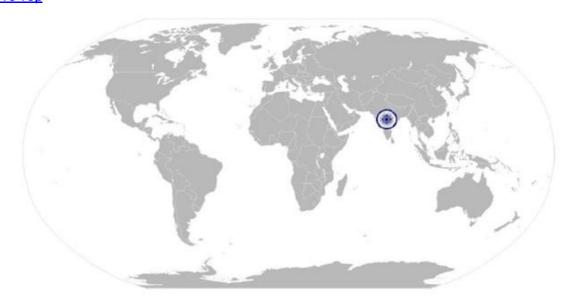


# IES/N0153 NOS Version Control

## Operate a transit mixer

NOS Code	IES/N0153		
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	30/04/16

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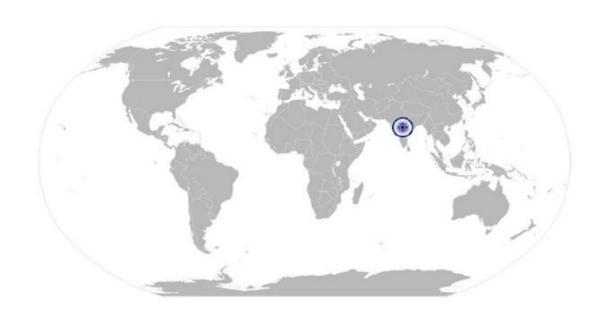






IES/N0154 Perform routine maintenance and troubleshooting of a transit mixer

# 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 transitmixer.



Reporting and

PC20.

# NOS





**National Occupational Standards** 

IES/N0154 Perform	routine maintenance and troubleshooting of a transit mixer		
Unit Code	IES/N0154		
Unit Title (Task)	Perform routine maintenance and troubleshooting of a transit mixer		
Description	This unit provides insight into activities that are required for performing		
	routine maintenance and troubleshooting on the transitmixer.		
Scope	This unit/task covers the following:		
	Routine maintenance		
	Basic diagnostics and troubleshooting		
	Documentation and Reporting		
Performance Criteria(Po	C) wrt the Scope		
Element	Performance Criteria		
Routine maintenance			
Routine maintenance	To be competent, the user/individual on the job must be able to:  PC1. Assess the right service schedule by tracking machine operating hours		
	PC2. Read and observe all plates and instructions concerning safety that are		
	attached onto the vehicle		
	PC3. Clean footplates, pedals and steps free from mud, dirt, ice and snow at		
	regular intervals		
	PC4. Check and maintain the tire rims, air pressure, wheel nuts and treads		
	as per manufacturer's indicators		
	PC5. Replenish coolants, lubricants and fluids everyday as per instructions		
	from the manufacturer		
	PC6. Grease all greasing pins and pivot points everyday as per instruction		
	from the manufacturer		
	PC7. Clean and adjust windows mirrors, lights and reflectors daily as per t		
	requirement		
	PC8. Check battery levels and condition of the terminals		
	PC9. Adjust alternator belt tension and feed pump while engine is off		
	PC10. Keep the tools in the appropriate place after use		
Basic diagnostics and	PC11. Ensure the machine is on firm and level ground before attempting to		
troubleshooting	carry out any maintenance; track machine operating hours to assess		
	the right service schedule		
	PC12. Turn off the main power from panel completely before carrying out		
	maintenance work		
	PC13. Ensure that bucket arm is lowered before any maintenance operations		
	PC14. Lubricate fifth wheel and pinion with grease or equivalent lubrication		
	using a hard bristle brush		
	PC15. Complete timely and legibly daily/weekly maintenance sheets as		
	provided by the company		
	PC16. Ensure that no maintenance task on theengine is performed when		
	running or still hot		
	PC17. Use appropriate tools are used while troubleshooting		
	PC18. Diagnose the problem PC19. Handle and dispose waste based on environmental guidelines at the		
	work place		
	work place		

Follow reporting procedures as laid down by the employer



**National Occupational Standards** 





documentation  PC21. Complete all documentation in the prescribed standards manner  PC22. Report defects precisely to the supervisor if beyond scope of the supervisor if beyond	·			
PC22. Report defects precisely to the supervisor if beyond scope of Knowledge and Understanding (K)  A. Organizational Context  C	of his role			
Knowledge and Understanding (K)  A. Organizational Context The user/individual on the job needs to know and understand:  KA1. Job specific documents e.g. daily maintenance ch	of his role			
A. Organizational The user/individual on the job needs to know and understand:  Context KA1. Job specific documents e.g. daily maintenance ch				
Context KA1. Job specific documents e.g. daily maintenance ch				
i i i i i i i i i i i i i i i i i i i				
	ecklist and			
(Knowledge of the importance of the same				
company / KA2. Common hazards in the work area and workplace proced	ures to deal			
organization and with them				
its processes) KA3. Safety policy of the company				
KA4. Emergency organization of the specific work site				
KA5. Risk and impact of not following defined procedures/work i				
KA6. The performance standards & procedures followed in the co	ompany			
KA7. Reporting structure in the company				
KA8. Timeframe in which the complaint/problem should be resol	ived			
KA9. Implications of delays in process to the company				
KA10. Cost of equipment and loss for the company that result fr	rom damage			
of equipment  KA11. Location of tools				
KA11. Location of tools  KA12. Contact person in case of queries on procedure or products	1			
B. Technical The user/individual on the job needs to know and understand:	KA13. Location and process for storage and disposal of waste material			
Knowledge KB1. Responsibilities of the assigned job role				
KB1. Responsibilities of the assigned job fole  KB2. Control and switches needed to operate the tra	ansit mixer			
APC 1	appropriately			
	KB3. Basic physics and mechanics involved in various functions of the transit			
mixer	or the transit			
KB4. Common defects and general causes of breakdown				
KB5. Response to emergency situations				
KB6. The optimal levels of control indicators e.g. fuel gauge	e. engine oil			
pressure and temperature	, , , ,			
KB7. Possible sources of any unusual sound emanating from the	engine			
Skills (S)	Ğ			
A. Core Skills / Writing Skills				
Generic Skills The user/ individual on the job needs to know and understand how	v to:			
SA1. Record any deviations/ incidents as per prescribed norms				
Reading Skills				
The user/ individual on the job needs to know and understand how	v 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	v to:			
SA3. Give clear instructions to co-workers, subordinates	and other			
personnel				
SA4. Use correct technical terms while interacting with supervisor	or			







#### **National Occupational Standards**

IES/N0154 Perform	routine maintenance and troubleshooting of a transit mixer			
B. Professional Skills	The user/ individual on the job needs to know and understand how to:  SB1. Decide when to conduct maintenance checks  SB2. Evaluate the decide to conduct basic trouble shooting			
	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			
	SB5. Plan for regular maintenance on a daily basis before machine			
	operations			
	Customer Centricity			
	The user/ individual on the job needs to know and understand how to:			
	SB6. 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:  SB7. Identify immediate or temporary solutions to resolve mechanical issues			
	SB8. Judge when to seek assistance from supervisor			
	Analytical Thinking			
	The user/ individual on the job needs to know and understand how to:			
	SB9. Identify possible ways to improve operational efficiency			
	SB10. Check for damages and diagnose common problems in the mixer and			
	take relevant actions			
	Critical Thinking			
	The user/individual on the job needs to know and understand how to:			
	SB11. Analyse, evaluate and apply the information gathered from			
	observation, experience, reasoning, or communication to act efficiently			







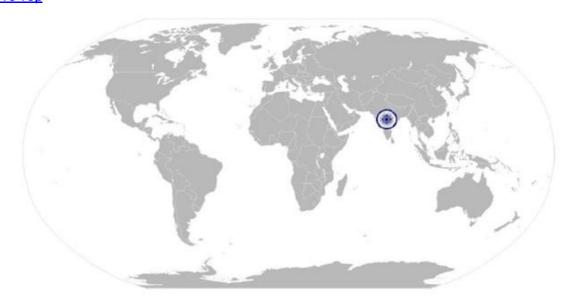




# IES/N0154 Perform routine maintenance and troubleshooting of a transit mixer NOS Version Control

NOS Code	IES/N0154			
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	•		

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# **Overview**

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







Unit Title (Task)  Description  This unit is about adhering to health and safety requirements at the works during equipment operations.  Scope  This unit/task covers the following:  Worksite health and safety  Performance Criteria(PC) w.r.t. the Scope  Element  Performance Criteria  Worksite health and safety  To be competent, the user/individual on the job must be able to: PC1. Comply with safety, health, security and environment relar regulations/ guidelines at the work site PC2. Use Personal Protective Equipment (PPE) and other safety gear applicable to the equipment and the worksite PC3. Follow safety measures during operations to ensure that the health and safety measures during operations to ensure that the health and safety measures during operations to ensure that the health and safety gear applicable to the equipment and the worksite
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during equipment operations.  Scope  This unit/task covers the following:  Worksite health and safety  Performance Criteria(PC) w.r.t. the Scope  Element  Performance Criteria  Worksite health and safety  To be competent, the user/individual on the job must be able to: PC1. Comply with safety, health, security and environment relaregulations/ guidelines at the work site PC2. Use Personal Protective Equipment (PPE) and other safety gear applicable to the equipment and the worksite PC3. Follow safety measures during operations to ensure that the heart
This unit/task covers the following:  • Worksite health and safety  Performance Criteria(PC) w.r.t. the Scope  Element  Performance Criteria  To be competent, the user/individual on the job must be able to: PC1. Comply with safety, health, security and environment relained regulations/ guidelines at the work site PC2. Use Personal Protective Equipment (PPE) and other safety gear applicable to the equipment and the worksite PC3. Follow safety measures during operations to ensure that the head
Worksite health and safety  Performance Criteria(PC) w.r.t. the Scope  Element
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Performance Criteria(PC) w.r.t. the Scope  Element
To be competent, the user/individual on the job must be able to: PC1. Comply with safety, health, security and environment relative regulations/ guidelines at the work site PC2. Use Personal Protective Equipment (PPE) and other safety gear applicable to the equipment and the worksite PC3. Follow safety measures during operations to ensure that the health
Worksite health and safety  To be competent, the user/individual on the job must be able to:  PC1. Comply with safety, health, security and environment relative regulations/ guidelines at the work site  PC2. Use Personal Protective Equipment (PPE) and other safety gear applicable to the equipment and the worksite  PC3. Follow safety measures during operations to ensure that the health
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applicable to the equipment and the worksite PC3. Follow safety measures during operations to ensure that the hea
PC3. Follow safety measures during operations to ensure that the hea
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and safety of self or others (including members of the public) is not
risk
PC4. Carry out operations as per the manufacturer's and worksite rela
health and safety guidelines
PC5. Handle the transport, storage and disposal of hazardous materials a
waste in compliance with worksite health, safety and environmen
guidelines
PC6. Operate various grades of fire extinguishers, as applicable
PC7. Support in administering basic first aid and report to concerned te
members, as required, in case of an accident
PC8. Respond promptly and appropriately to an accident/ incident
emergency situation, within limits of your role and responsibility
PC9. Record and report details related to operations, incidents or accidents
as applicable as applicable
Knowledge and Understanding (K)
A. Organizational The user/individual on the job needs to know and understand:
Context KA1. Health, safety, environmental(HSE) and security related polici
(Knowledge of the guidelines of the organization and the worksite and its importance
company / KA2. Personnel responsible for Health, Safety and environment (H
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 matter
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 ri
related to the worksite and operations
KB3. Types, use and importance of Personal Protective Equipment (PPE) a
other safety gear
KB4. Safe working practices to avoid common hazards and risks
KB5. Guidelines for transport, storage and disposal of hazardous mater







	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)			
A. Core Skills /	Writing Skills		
Generic 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 supervisor		
B. Professional Skills	Decision Making		
b. Floressional skins	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:		
	SB7. Assess the intensity of the fire accident and operate fire extinguishers		
	Critical Thinking		







The user/ individual on the job needs to know and understand how to:								
SB8.	Analyse,	evaluate	and	apply	the	information	gathered	from
	observati	on, experie	nce, r	easonin	g, or c	ommunication	n to act effic	iently







# **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			

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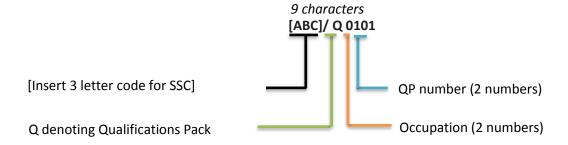




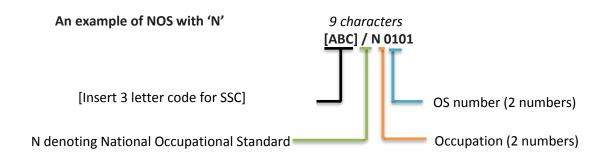
### **Annexure**

## 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
<b>Equipment Operations</b>	1 to 10
Equipment Service and spares	11 to 20
<b>Equipment Production</b>	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 <b>Q</b> P or <b>N</b> OS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01







#### **CRITERIA FOR ASSESSMENT OF TRAINEES**

Job Role Transit Mixer Operator

**Qualification Pack IES/Q0118** 

**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 60% 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/N0152 Carry out     pre-operation checks     on a transit mixer	PC1. Visually inspect the body components for cracks and bearing wear		3	1	2	
	PC2. Check if tyre inflation pressure corresponds to that prescribed norms of the manufacturer	30	2	1	1	
	PC3. Ensure that wheel nuts are firmly tightened as per prescribed norms of the manufacturer	2		1	1	
	PC4. Check oil levels of engine transmission, radiator coolant and brake		2	1	1	







PC5. Check hydraulic oil levels as per the prescribed norms of the manufacturer
PC6. Check water system for leaks and clean water pump filter per the prescribed norms of the manufacturer
PC7. Drain water and sediment from the fuel tank as per operational manual
PC8. Ensure that the mixer drums are clean and free from concrete
PC9. Ensure not to fill the fuel tank while engine is running
PC10. Check battery electrolyte level as per the prescribed norms of the manufacturer
PC11. Check electronic weighing system for any malfunctioning
PC12. Apply grease to all grease nipples as per the prescribed norms of the manufacturer
PC13. Ensure that the area is clear of all personnel and equipment before moving the equipment
PC14. Ensure driver's seat, steps and handles are always clean and free from any foreign object or grease trials, oil mud and unfastened objects in the cabin
PC15. Ensure proper condition of parking brake, main horn, reverse horn and head light
PC16. Check all protection and safety for appropriate position for operation
PC17. Maintain a checking/maintenance logbook to record all activities performed before starting the machine

1.5	0.5	1		
2	1	1		
2.5	0.5	2		
1	0.5	0.5		
1	0.5	0.5		
1.5	0.5	1		
2	1	1		
2.5	0.5	2		
1.5	0.5	1		
1.5	0.5	1		
1	0	1		
1	0	1		
1	0	1		







	PC18. Report defects precisely to the supervisor if beyond scope of the role		1	0	1
		Total	30	10	20
IES/N0153 Operate a transit mixer	PC1. Plan and organize the job according to instructions from the supervisor		2	1	1
	PC2. Inspect the worksite to identify and loose soil hidden deep trenches or marshy patches where a mixer could get stuck		1.5	1	0.5
	PC3. Fill water tanks ready for daily use as per organizational standards		1	0.5	0.5
	PC4. Carry out all peruse and running checks as per organizational standards		2	1	1
	PC5. Wear seat belt and adjust seat position to one's comfort		1	0.5	0.5
	PC6. Start the engine using the starting key		0.5	0	0.5
	PC7. Ensure parking brake is engaged and electric gear selector is in neutral position before starting the engine	35	1	0.5	0.5
	PC8. Select appropriate type of steering mechanism as per the situational requirements	. 33	1.5	0.5	1
	PC9. Load correct proportions of aggregates, cement, water and admixtures as per the production requirements		3	1	2
	PC10. Ensure mixer load and operating speed is within specified limits as per the manufacturer's		3	1	2
	PC11. Adjust the direction of drum rotation for mixing as per the requirement		2.5	0.5	2
	PC12. Adjust the concrete chute to the discharge position		2	0	2
	PC13. Discharge concrete to the desired location at the site		2	0	2







PC14. Use the emergency stop button to disable all power to the transit mixer in case of a crisis as per operational manual		2	1	1
PC15. Turn off ignition after finishing operations as per the instructions given in the instructional manual		1	0.5	0.5
PC16. Ensure gear is in neutral position post usage		1	0.5	0.5
PC17. Ensure bucket drum and concrete- skid are cleaned as per the manufacturer's instructional manual		2.5	0.5	2
PC18. Remove attachments after use		1	0.5	0.5
PC19. Ensure that the machine is secured when left unattended		1.5	0.5	1
PC20. Maintain a production logbook to record all activities performed		1.5	0.5	1
PC21. Report defects precisely to the supervisor if beyond scope of the role		1.5	0.5	1
	Total	35	12	23
PC1. Assess the right service schedule by tracking machine operating hours		1	0.5	0.5
PC2. Read and observe all plates and instructions concerning safety that are attached onto the vehicle		1	0.5	0.5
PC3. Clean footplates, pedals and steps free from mud, dirt, ice and snow at regular intervals	20	0.5	0	0.5
PC4. Check and maintain the tire rims, air pressure, wheel nuts and treads as per manufacturer's indicators		1	0.5	0.5
PC5. Replenish coolants, lubricants and fluids everyday as per instructions from the manufacturer		1.5	0.5	1
PC6. Grease all greasing pins and pivot points everyday as per instructions from		1	0.5	0.5
	disable all power to the transit mixer in case of a crisis as per operational manual  PC15. Turn off ignition after finishing operations as per the instructions given in the instructional manual  PC16. Ensure gear is in neutral position post usage  PC17. Ensure bucket drum and concreteskid are cleaned as per the manufacturer's instructional manual  PC18. Remove attachments after use  PC19. Ensure that the machine is secured when left unattended  PC20. Maintain a production logbook to record all activities performed  PC21. Report defects precisely to the supervisor if beyond scope of the role  PC1. Assess the right service schedule by tracking machine operating hours  PC2. Read and observe all plates and instructions concerning safety that are attached onto the vehicle  PC3. Clean footplates, pedals and steps free from mud, dirt, ice and snow at regular intervals  PC4. Check and maintain the tire rims, air pressure, wheel nuts and treads as per manufacturer's indicators  PC5. Replenish coolants, lubricants and fluids everyday as per instructions from the manufacturer  PC6. Grease all greasing pins and pivot	disable all power to the transit mixer in case of a crisis as per operational manual  PC15. Turn off ignition after finishing operations as per the instructions given in the instructional manual  PC16. Ensure gear is in neutral position post usage  PC17. Ensure bucket drum and concreteskid are cleaned as per the manufacturer's instructional manual  PC18. Remove attachments after use  PC19. Ensure that the machine is secured when left unattended  PC20. Maintain a production logbook to record all activities performed  PC21. Report defects precisely to the supervisor if beyond scope of the role  Total  PC1. Assess the right service schedule by tracking machine operating hours  PC2. Read and observe all plates and instructions concerning safety that are attached onto the vehicle  PC3. Clean footplates, pedals and steps free from mud, dirt, ice and snow at regular intervals  PC4. Check and maintain the tire rims, air pressure, wheel nuts and treads as per manufacturer's indicators  PC5. Replenish coolants, lubricants and fluids everyday as per instructions from the manufacturer  PC6. Grease all greasing pins and pivot	disable all power to the transit mixer in case of a crisis as per operational manual  PC15. Turn off ignition after finishing operations as per the instructions given in the instructional manual  PC16. Ensure gear is in neutral position post usage  1  PC17. Ensure bucket drum and concreteskid are cleaned as per the manufacturer's instructional manual  PC18. Remove attachments after use  1  PC19. Ensure that the machine is secured when left unattended  PC20. Maintain a production logbook to record all activities performed  PC21. Report defects precisely to the supervisor if beyond scope of the role  Total  PC1. Assess the right service schedule by tracking machine operating hours  1  PC2. Read and observe all plates and instructions concerning safety that are attached onto the vehicle  PC3. Clean footplates, pedals and steps free from mud, dirt, ice and snow at regular intervals  PC4. Check and maintain the tire rims, air pressure, wheel nuts and treads as per manufacturer's indicators  PC5. Replenish coolants, lubricants and fluids everyday as per instructions from the manufacturer  PC6. Grease all greasing pins and pivot	disable all power to the transit mixer in case of a crisis as per operational manual  PC15. Turn off ignition after finishing operations as per the instructions given in the instructional manual  PC16. Ensure gear is in neutral position post usage  1 0.5  PC17. Ensure bucket drum and concrete-skid are cleaned as per the manufacturer's instructional manual  PC18. Remove attachments after use  1 0.5  PC19. Ensure that the machine is secured when left unattended  PC20. Maintain a production logbook to record all activities performed  PC21. Report defects precisely to the supervisor if beyond scope of the role  PC21. Assess the right service schedule by tracking machine operating hours  Total  PC2. Read and observe all plates and instructions concerning safety that are attached onto the vehicle  PC3. Clean footplates, pedals and steps free from mud, dirt, ice and snow at regular intervals  PC4. Check and maintain the tire rims, air pressure, wheel nuts and treads as per manufacturer's indicators  PC5. Replenish coolants, lubricants and fluids everyday as per instructions from the manufacturer  PC6. Grease all greasing pins and pivot







PC7. Clean and adjust windows mirrors, lights and reflectors daily as per the requirement		0.5	0	0.5
PC8. Check battery levels and condition of the terminals		1	0.5	0.5
PC9. Adjust alternator belt tension and feed pump while engine is off		1	0	1
PC10. Keep the tools in the appropriate place after use	-	1.5	0.5	1
PC11. Ensure 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	0.5	0.5
PC12. Turn off the main power from panel completely before carrying out maintenance work		1	0.5	0.5
PC13. Ensure that bucket arm is lowered before any maintenance operations		1	0.5	0.5
PC14. Lubricate fifth wheel and pinion with grease or equivalent lubrication using a hard bristle brush		1	0.5	0.5
PC15. Complete timely and legibly daily/weekly maintenance sheets as provided by the company		0.5	0	0.5
PC16. Ensure that no maintenance task on the engine is performed when running or still hot		1	0.5	0.5
PC17. Use appropriate tools are used while troubleshooting		1	0.5	0.5
PC18. Diagnose the problem	<u> </u>	0.5	0	0.5
PC19. Handle and dispose waste based on environmental guidelines at the work place		1.5	0.5	1
PC20. Follow reporting procedures as laid down by the employer		0.5	0	0.5







Grand Total			100	34	66
		Total	15	5	10
	PC9. Record and report details related to operations, incidents or accidents, as applicable		1.5	0.5	1
	PC8. Respond promptly and appropriately to an accident/incident or emergency situation, within limits of your role and responsibility		1.5	0.5	1
	PC7. Support in administering basic first aid and report to concerned team members, as required, in case of an accident		1.5	0.5	1
	PC6. Operate various grades of fire extinguishers, as applicable		2.5	0.5	2
	PC5. Handle the transport, storage and disposal of hazardous materials and waste in compliance with worksite health, safety and environmental guidelines	15	2	1	1
	PC4. Carry out operations as per the manufacturer's and worksite related health and safety guidelines		1.5	0.5	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		1.5	0.5	1
	PC2. Use Personal Protective Equipment (PPE) and other safety gear as applicable to the equipment and the worksite		1.5	0.5	1
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		1.5	0.5	1
		Total	20	7	13
	PC22. Report defects precisely to the supervisor if beyond scope of his role		0.5	0	0.5
	PC21. Complete all documentation in the prescribed standards in a timely manner		0.5	0	0.5