



Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

INFRASTRUCTURE EQUIPMENT SKILL COUNCIL

for the

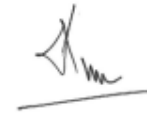
MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: 'Transit Mixer Operator' QP No. 'IES/ Q 0118 NSQF Level 4'

Date of issuance: June 1st, 2017

Valid up to: April 30th, 2018

* Valid up to the next review date of the Qualification Pack



Authorized Signatory
(Infrastructure Equipment Skill Council)

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Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>Performance Criteria: Execute the following tasks and procedures:</p> <ul style="list-style-type: none"> Examine the machine to ensure there are no cracks in the body and leakages. Check all fluid levels in the engine, transmission & hydraulic systems; top up where necessary Check water system for leaks and clean water pump filter if required. Clean the mixer drum as per instructions Inspect all greasing points and pivots and ensure lubrication. Check all controls, gauges, lights and horns are functional. Maintain a log book to record all actions done before starting. Follow laid down procedure for reporting defects beyond his scope. 	
2	<p>Operate a transit mixer.</p> <p>Theory Duration (hh:mm) 30:00</p> <p>Practical Duration (hh:mm) 75:00</p> <p>Corresponding NOS Code IES/N0153</p>	<p>Organisational Context: Acquire working knowledge of the following:</p> <ul style="list-style-type: none"> Procedures and guidelines related to breakdown & maintenance services. Location of tools and equipment and procedure for issue and return. Safety policy of the organisation and emergency drills. <p>Technical Knowledge. Understand the fundamentals of the following:</p> <ul style="list-style-type: none"> Type and grade of materials; cement aggregates sand and mixture. Specs and features/performance/output of the machine/mixer. Procedure for turning on and off the transit mixer. Various hand signals and safety & emergency signs on road & work site <p>Skills - Core & Professional. Acquire the ability to:</p> <ul style="list-style-type: none"> In addition to core and generic skills listed above Interpret signage on road and at work site operations correctly. Use correct terminology while interacting with others at site Plan work schedule in time bound and cost effective way. Identify operational slow-downs and take timely remedial action. 	<ul style="list-style-type: none"> Transit Mixer/Self Loading Concrete Mixer (SLCM) with standard tools and equipment. Adequate stocks of cement, sand and other aggregates. Class room with audio-video system Manufacturers O and M Manual & Video Safety video PPE Items & Safety Gear <u>Open ground</u>

Trainer Pre-requisites for Job role: “Transit Mixer Operator” mapped to Qualification Pack: “IES/Q0118, v1.0”

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “IES/Q 0118 Version 1.0”.
2	Personal Attributes	Aptitude for conducting training, with strong communication and interpersonal skills. Passion for training and developing others; well-organised; and a team player. Eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	Class 8 th ; preferably 10 th
4a	Domain Certification	Certified for Job Role: “ <u>Transit Mixer Operator</u> ” mapped to QP: “ <u>IES/Q 0118 – Version 1.0</u> ”. Minimum accepted score 70%. Desired: Certification Training in Transit Mixer Operations & Maintenance
4b	Platform Certification	Certified for Job Role: “ <u>Trainer</u> ” mapped to Qualification Pack: SSC/1402. Minimum accepted score 70%.
5	Experience	<ul style="list-style-type: none"> • Around 3 to 4 years’ site experience in Transit Mixer Operations. • At least 1 to 2 years’ experience in conducting O and M training programs.

Assessment Criteria	
Job Role	Transit Mixer Operator
Qualification Pack	IES/Q 0118 Version 1.0
Sector Skill Council	Infrastructure Equipment

Sr. No.	Guidelines for Assessment
1	Criteria for assessment for Qualification Pack has been laid down based on the NOS's. Each Performance Criteria (PC) has been assigned marks proportional to its importance within NOS.SSC will also lay down proportion of marks for Theory and Skill 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.

Assessment Outcomes	Assessment Criteria for the outcome	Total Mark	Marks Allocation		
			Out Of	Theory	Skills Practical
1. IES/N0152 Carry out pre-operation checks on a transit mixer	PC1. Visually inspect the body components for cracks and bearing wear	30	3	1	2
	PC2. Check if tire inflation pressure corresponds to that prescribed norms of the manufacturer		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		1.5	0.5	1

	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		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 the manufacturer		1	0.5	0.5
	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

