



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: 'Tyre Mounted Crane Operator' QP No. 'IES/ Q 0109 NSQF Level 4'

Date of Issuance: April 1st, 2017

Valid up to: March 31st, 2019

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



Authorized Signatory
(Infrastructure Equipment Skill Council)

TABLE OF CONTENTS

1. Curriculum	01
2. Trainer Prerequisites	09
3. Annexure: Assessment Criteria	10

Tyre Mounted Crane Operator

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Tyre Mounted Crane Operator”, in the “Infrastructure Equipment” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Tyre Mounted Crane Operator		
Qualification Pack Name & Reference ID	IES/Q0109		
Version No.	1.0	Version Update Date	31 March 2015
Pre-requisites to Training	Class 8th Standard preferably Certification Training in Tyre Mounted Crane Operations preferred 2 years' experience in operating a Tyre Mounted Crane		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Carry out pre-operation checks for tyre mounted crane. Introduction to tyre mounted crane, basic working of engine, hydraulic and electrical systems, operational controls and alarms, instrument panel, preparing machine for operations. • Carry out tyre mounted crane operations. Load charts, work site inspection, starting up, assembling crane, rigging, hooking, lifting load and hauling safely and stacking stably, parking & shutting down the machine; post-operative checks. • Carry out regular maintenance of tyre mounted crane. General maintenance policy and procedures, periodic service schedule; common faults and their diagnosis; reports and documents. • Comply with worksite health and safety guidelines. Health, safety and environment policies; personal protective equipment, fire-fighting equipment, basic first aid for common injuries at work site, disposal of waste. 		

Assessment Criteria	
Job Role	Tyre Mounted Crane Operator
Qualification Pack	IES/Q 0109 Version 1.0
Sector Skill Council	Infrastructure Equipment

Sr. No.	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 centre (as per assessment criteria below)
4	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on this criteria.
5	To pass the Qualification Pack, every trainee should score a minimum of 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.

Assessable Outcomes	Assessment criteria for the outcome	Total Mark	Marks Allocation		
			Out Of	Theory	Skills Practical
1. IES/N0125 Carry out pre-operation checks on tyre mounted crane	PC1. Adhere to time limits given by supervisor	40	1	0	1
	PC2. Ensure the crane body components is free of cracks and bearing wear		2	1	1
	PC3. Checks that all decals are legible and in place as per operation manual		3	0	3
	PC4. Confirm no hydraulic oil leaks and proper oil level as per manufacturer's indicator		1	0	1
	PC5. Confirm no battery fluid leaks and proper fluid level as per manufacturer's indicator		4	1	3
	PC6. Ensure proper tyre pressure and lug nut torque as per manufacturer's indicator		3	0	3
	PC7. Make sure there is no engine oil leaks and proper fuel and fluid levels as per manufacturer's indicator		4	1	3

PC12. Check wind speeds are within the crane's operational limits	1	0	1
PC13. Ensure appropriate boom extension as per operation manual	2	1	1
PC14. Hoist and release the load at a small height to check the holding and control breaks are functioning properly, ahead of the actual lifting	4	1	3
PC15. Carry out lifting of load in coordination with rigger as per the requirement	3	0	3
PC16. Monitor stability whilst moving a load	1	0	1
PC17. Ensure good visibility of both ends of the crane arm at all times	1	0	1
PC18. Ensure no obstacles, personnel or other obstructions during lifting operation	2	1	1
PC19. Look out for people working and hazards such as trenches, potholes and cables	1	0	1
PC20. Adhere to time limits given by the supervisors	1	0	1
PC21. Perform in-operation visual checks on critical temperature and pressure gauges as per operation manual	2	1	1
PC22. Select and use the right type of brake in different situations and conditions as per the operation manual	2	1	1
PC23. Ensure that walkway rules e.g. operating the crane within the permissible/ allocated areas are followed	1	0	1
PC24. Utilize judiciously various signaling devices available in the crane	1	0	1
PC25. Keep a safe distance from other plant or vehicles	1	0	1
PC26. Work safely in accordance with operational requirements and associated Safe Systems of Work	2	1	1
PC27. Discharge the load safely at the position and in the manner designated by the supervisor	1	0	1

