



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:
'Aerial Work Platform Operator (Option:Telescopic Handler' QP No. 'IES/ Q 0127 NSQF Level 4'

Date of Issuance: April 1st, 2018

Valid up to: March 31st, 2020

** 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
		extending boom lift slowly to the work area <ul style="list-style-type: none"> • Monitor the safe boom extension / operating range as per the load capacities chart • Identify operational slowdowns and initiate necessary actions to rectify the issues in time • Terminate operations by placing boom lift in stowed position; uninstalling outriggers, parking the machine and shutting down the engine. • Inspect for damages; leaks etc and report / take appropriate action as laid down • Maintain a logbook to record all activities carried out during the aerial work platform operations. • Achieve high levels of customer satisfaction by ensuring quality service is delivered as committed 	
3	Carry out routine maintenance and troubleshooting of an aerial work platform. Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 16:00 Corresponding NOS Code IES/N0181	<ul style="list-style-type: none"> • Determine the service requirement as per the parameters listed in the maintenance schedule • Position the machine correctly and safely before carrying out any maintenance activity • Inspect machine for damaged / cracked parts / components and rectify as necessary • Inspect and check functioning of all control panels / mechanisms and monitoring devices. • Inspect engine, hydraulic, electrical and transmission systems and service the various components as per the guidelines. • Inspect and service the work platform / carrying basket as laid down in the maintenance manual • Inspect wheel rims, tires for damages and correct air pressure; wheel nuts for tightness • Diagnose the defect/ problem and rectify using appropriate tools/eqpt; if need be take advice from supervisor • Complete documentation on prescribed formats completed legibly and in time. • Report defects and problems in time and escalate, if beyond his scope, as necessary 	<ul style="list-style-type: none"> • Aerial Work Platform with standard tools, accessories and equipment. • Class room with audio-video system • Manufacturers O and M Manual & Video • Safety video • PPE Items & Safety Gear • Lab/workshop/covered shed
4	Comply with Worksite Health and Safety Guidelines	<ul style="list-style-type: none"> • Comply with all safety, health, security and environmental regulations and guidelines at the worksite 	<ul style="list-style-type: none"> • Aerial Work Platform with standard tools, accessories and

<p>GRAND Total Duration</p> <p>Minimum Duration for the QP= <u>120 hrs</u> Theory: 40 hrs Practical: 80 hrs</p> <p>Maximum Duration for the QP= <u>144 hrs</u> Theory: 48 hrs Practical: 96 hrs</p>	<p>Unique Equipment Required:</p> <ul style="list-style-type: none"> • Aerial Work Platform and or Telescopic Material Handler with standard tools, accessories and equipment. • Class room with audio-video projection system • Manufacturers O and M Manual & Video • Safety video • PPE Equipment: Helmet, gloves, earplugs, goggles, safety shoes • Firefighting equipment and 'How to Use' Charts • First Aid Box and 'How to Do' Charts <p>Open ground and Lab/Workshop/Covered Shed</p>
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(This syllabus/ curriculum has been approved by [Infrastructure Equipment Skill Council](#))

Assessment Criteria	
Job Role	Aerial Work Platform Operator (Option: Telescopic Handler)
Qualification Pack	IES/Q 0127 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	Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
5	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion
6	To pass the Qualification Pack, trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment
7	In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack

Compulsory NOS				Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skill Practical
1. IES/N0179 Carry out Pre-operation checks on Aerial Work Platform	PC1. check tires for damages and bulges	30	3	1	2
	PC2. check wheels for loose lug bolts, bent rims, cracks		3	1	2
	PC3. check the equipment for any damage- cracks, misalignment, welds, excess mast movement, locking pins		3	1	2
	PC4. check the hydraulic system reservoir, engine crankcase, engine coolant, transmission, air filter and axles are filled to the required operating fluid levels		4	1	3
	PC5. inspect for defects such as cracked welds, fuel leaks, hydraulic leaks, damaged control cables or wire harness		4	1	3
	PC6. inspect whether work platform and extension slides are clean, dry & clear of debris		3	1	2

	such as supervisor, mechanic				
	Total		35	13	22
3. IES/N0181 Carry out maintenance and troubleshooting of the aerial work platform	PC1. determine the right service schedule by tracking machine operating hours	20	2.5	0.5	2
	PC2. check if all the plates are attached to the vehicle		1.5	0.5	1
	PC3. replenish lubricants and fluids as per the running of the machine or as per the schedule		2	0.5	1.5
	PC4. dispose of waste lubricating oils, anti-freeze and hydraulic fluids according to local regulations or take them to a recycling center for disposal.		2	0.5	1.5
	PC5. check battery levels and condition of the terminals and carry out minor adjustments if required		1	0	1
	PC6. fill the fuel tank to prevent water from condensing in the tank		1	0	1
	PC7. ensure that no maintenance task on the engine is performed when running or still hot		1.5	0.5	1
	PC8. ensure the main is turned off from panel completely before carrying out maintenance work on the equipment		1	0	1
	PC9. ensure that appropriate tools are used while troubleshooting		1	0	1
	PC10. diagnose the problem and identify appropriate repair procedures		1.5	0.5	1
	PC11. report defects precisely to the supervisor if beyond scope of the role		1.5	0.5	1
	PC12. dispose waste as per the guidelines of the site/ organization		1.5	0.5	1
	PC13. follow reporting procedures as laid down by the employer		1	0.5	0.5
	PC14. complete all documentation as per the prescribed standards in a timely manner		1	0.5	0.5
	Total	20	5	15	
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	1.5	0.5	1

	PC6. determine the operating range based on the load capacities for the equipment	2.5	0.5	2
	PC7. ensure that the correct carriage and forks are being used before loading the material	2.5	0.5	2
	PC8. adjust spacing of forks to engage the pallet or load at max width	2.5	0.5	2
	PC9. position the telescopic handler to place or retrieve the load without moving or repositioning the machine	2.5	0.5	2
	PC10. engage the load, rest it against the backrest and tilt it back slightly	2.5	0.5	2
	PC11. drive the telescopic handler to the landing location	2.5	0.5	2
	PC12. align forks of telescopic handler at the level at which the load is to be placed, then extend boom slowly until load is just above area where it is to be placed	2.5	1	1.5
	PC13. lower the boom of telescopic handler until the load rests in position and the forks are free to retract	2	0.5	1.5
	PC14. drive the equipment to the parking lot	1.5	0.5	1
	PC15. shift the transmission to "Neutral" and allow the engine to slow to idle speed	1.5	0.5	1
	PC16. park the machine on a level surface	1.5	0.5	1
	PC17. ensure the engine is off and remove ignition key of telescopic handler	2	0.5	1.5
	PC18. determine the right service schedule by tracking machine operating hours	2	0.5	1.5
	PC19. check if all the plates are attached onto the vehicle	2.5	1	1.5
	PC20. ensure the main power is turned off from panel completely before carrying out maintenance work	1.5	0.5	1
	PC21. replenish lubricants and fluids as per the running of the machine or as per the schedule	2.5	1	1.5
	PC22. follow reporting procedures as laid down by the employer	2	0.5	1.5
	PC23. complete all documentation in the prescribed standards in a timely manner	1.5	0.5	1
	PC24. report defects precisely to the supervisor if beyond scope of his role	2	1	1
	PC25. dispose waste as per the guidelines of the site/ organization	2.5	1	1.5
	Total	50	15	35