





## 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: 'Junior Paver Operator/Screed man' QP No. 'IES/ Q 0121 NSQF Level 3'

Date of issuance: June 1<sup>st</sup>, 2017

Valid up to: April 30<sup>th</sup>, 2018

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



Authorized Signatory  
(Infrastructure Equipment Skill Council)

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# Junior Paver Operator / Screed man

## CURRICULUM / SYLLABUS

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

<b>Program Name</b>	<b>Junior Paver Operator/Screedman</b>		
<b>Qualification Pack Name &amp; Reference ID</b>	IES/Q0121		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	01 June 2017
<b>Pre-requisites to Training</b>	Preferably Class 8th Standard Certification Training in Paver Operations preferred. Preferably 6 months to 1 years’ experience in assisting in Paver Operations.		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• <b>Assist in carrying out pre-operation checks on a paver.</b> General introduction to pavers, basic working of parts and systems; engine, hydraulic and electrical, operational controls and instrument panel, preparing machine for operations</li> <li>• <b>Assist in carrying out paver operations.</b> Properties of materials and aggregates, starting of paver, loading of materials, monitoring and regulating flow, shutting down and post-operative checks</li> <li>• <b>Assist in carrying out maintenance and trouble shooting of paver.</b> General maintenance procedures and periodic service schedule; common faults and their diagnosis; reports and documents.</li> <li>• <b>Comply with worksite health and safety guidelines.</b> Health, safety and environment policies; personal protective equipment, fire-fighting equipment, basic first aid for common injuries at work site</li> </ul>		

This course encompasses 4 out of 4 National Occupational Standards (NOS) of “Junior Paver Operator/Screed man” Qualification Pack issued by “Infrastructure Equipment Skill Council”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p><b>Assist in carrying out pre-operation checks on a paver</b></p> <p><b>Theory Duration</b> (hh:mm) 12:00</p> <p><b>Practical Duration</b> (hh:mm) 24:00</p> <p><b>Corresponding NOS Code</b> IES/N0161</p>	<p><b>Organisational Context: Acquire a working knowledge of the following:</b></p> <ul style="list-style-type: none"> <li>• Organisation structure, reporting and escalation line.</li> <li>• Performance standards and procedures in the company.</li> <li>• Work target and review mechanism with supervisor</li> <li>• Location and process for storage and disposal of waste.</li> <li>• Safety policy of the organisation and emergency procedures</li> </ul> <p><b>Technical Knowledge: Understand the fundamentals of the following:</b></p> <ul style="list-style-type: none"> <li>• Different types of pavers, features, performance: <ul style="list-style-type: none"> <li>○ Wheeled</li> <li>○ Tracked</li> </ul> </li> <li>• Parts and systems of pavers and its functioning: <ul style="list-style-type: none"> <li>○ Tractor Unit</li> <li>○ Screed Unit</li> </ul> </li> <li>• <u>Basics of Engine</u> and its systems; procedure for filling and topping up of fuel, coolant, oils.</li> <li>• <u>Basics of Electricals</u>; types of motors used and its functioning.</li> <li>• <u>Basics of Hydraulics</u>; types of pumps and motors and its functioning</li> <li>• Road layers, types of aggregates and its physical characteristics.</li> <li>• Basics of screed heating and various mechanisms.</li> <li>• Method of greasing and lubrication different parts of the equipment</li> <li>• Cabin controls and Instrument panels; their operation.</li> <li>• Optimal working condition of components and monitoring systems</li> <li>• Documents and log books to be maintained for recording activities.</li> <li>• Procedures for reporting defects if beyond his scope.</li> </ul> <p><b>Skills - Core &amp; Professional. Acquire the ability to:</b></p> <ul style="list-style-type: none"> <li>• Read &amp; understand general instructions/guidelines related to equipment &amp; worksite ops.</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Scaled Model of a Paver for theory sessions</u></li> <li>• <u>Active Paver at nearby project site for practical sessions</u></li> <li>• Class room with audio-video system</li> <li>• Manufacturers O and M Manual &amp; Video</li> <li>• Safety video</li> <li>• PPE Items &amp; Safety Gear</li> </ul>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>• Write and record any incidents &amp; deviations on the prescribed formats.</li> <li>• Orally communicate information &amp; instructions to co-workers in a clear and concise manner.</li> <li>• Plan and organise work related tasks with all concerned in most efficient and cost effective way.</li> </ul> <p><b>Performance Criteria: Execute the following tasks and procedures:</b></p> <p><b>Pre-op Checks</b></p> <ul style="list-style-type: none"> <li>• Assist in visual inspection of paver for any leakages, damages, missing or broken parts</li> <li>• <u>Tractor Unit</u> <ul style="list-style-type: none"> <li>○ Air Induction System and Filters/Dirt Evacuators,</li> <li>○ Fuel, lube, coolant and transmission oil levels, top up if necessary</li> <li>○ Battery electrolyte levels, Alternator and mounting brackets,</li> <li>○ Electrical wirings and connections</li> <li>○ Hydraulic: Pumps and motors</li> <li>○ Tow arms and cylinders for damage</li> </ul> </li> <li>• <u>Screed Unit</u> <ul style="list-style-type: none"> <li>○ Screed plate, tamping bar and attack angle</li> <li>○ Sensor assembly</li> <li>○ Heating mechanism; electrical &amp; gas</li> <li>○ Hopper system for wear or damage</li> <li>○ Conveyor belts for wear and tear.</li> <li>○ Distribution system for materials/aggregates, augurs</li> </ul> </li> <li>• Assist in checking and cleaning operator's cabin and control console steps and hand holds</li> <li>• Check all the controls related to feeders, conveyors, augurs and brakes</li> <li>• Check instrument panel gauges, indicators, lights, horns and sensors</li> <li>• Lubrication of all controls, pivots and joints, moving parts as applicable.</li> <li>• Check all safety labels and instructions decals in place and readable</li> </ul>	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>• <u>Wheeled Paver</u>: Check inflation pressure of tyres to be as per specs.</li> <li>• <u>Tracked Paver</u>: Check track tension and adjust as necessary.</li> <li>• Ensure safety covers and guards; equipment in place before operating the paver.</li> </ul> <p><b>Reporting &amp; Documentation</b></p> <ul style="list-style-type: none"> <li>• Assist in maintaining log book to record all actions done before starting.</li> <li>• Follow laid down procedure for reporting defects beyond his scope.</li> </ul>	
2	<p><b>Assist in carrying out paver operations.</b></p> <p><b>Theory Duration</b> (hh:mm) 10:00</p> <p><b>Practical Duration</b> (hh:mm) 20:00</p> <p><b>Corresponding NOS Code</b> IES/N0162</p>	<p><b>Organisational Context: Acquire working knowledge of the following:</b></p> <ul style="list-style-type: none"> <li>• Procedures and guidelines related to breakdown &amp; maintenance services.</li> <li>• Location of tools and equipment and procedure for issue and return.</li> <li>• Safety policy of the organisation and emergency drills.</li> </ul> <p><b>Technical Knowledge. Understand the fundamentals of the following:</b></p> <ul style="list-style-type: none"> <li>• Basics of equipment operations listed under pre-op checks.</li> <li>• Starting procedure as per correct sequence and specs.</li> <li>• Operating the various systems to ensure efficient paving.</li> <li>• Monitoring systems to ensure optimal output/productivity.</li> <li>• Stopping procedure including emergency shutdown.</li> <li>• Various hand signals, road safety rules &amp; emergency signs at site.</li> <li>• Documents and log books to be maintained for recording activities.</li> <li>• Procedures for reporting defects and mal-functions if beyond his scope.</li> </ul> <p><b>Skills - Core &amp; Professional. Acquire the ability to:</b></p> <ul style="list-style-type: none"> <li>• In addition to core and generic skills listed above</li> <li>• Interpret signage at project work site correctly.</li> <li>• Use correct terminology while interacting with others at site</li> <li>• Help plan work schedule in time bound and cost effective way.</li> <li>• Help identify operational slow-downs</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Scaled Model of Paver for theory sessions</u></li> <li>• <u>Active Paver at nearby project site for practical sessions</u></li> <li>• Adequate stocks of aggregates and consumables.</li> <li>• Class room with audio-video system</li> <li>• Manufacturers O and M Manual &amp; Video</li> <li>• Safety video</li> <li>• PPE Items &amp; Safety Gear</li> </ul>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>and take timely remedial action.</p> <p><b>Performance Criteria. Execute the following tasks and procedures:</b></p> <p><b>Screed Operations</b></p> <ul style="list-style-type: none"> <li>• Ensure screed is clean and properly adjusted for type of paving - crown, cross slope etc.</li> <li>• Assist in pre-heating screed before placing the asphalt as per the set standards.</li> <li>• Control and monitor temperature settings of asphalt mixture as per instructions from operator.</li> <li>• Adjust the screed paving reference components to project specifications viz width, depth, grade and slope etc</li> <li>• Establish screed plate angle of attack, position of pre-strike off plates.</li> <li>• Maintain proper contact between gates and paving surface.</li> <li>• Assist operator to fill the augur chamber.</li> <li>• Check mat thickness and adjust controls as needed to maintain yield</li> <li>• Observe distribution of materials; hopper-conveyor-augur-screed width.</li> <li>• Assist in navigating paver as per requirement of the surface.</li> <li>• Assist operator in attaching extensions to screed to adjust width.</li> <li>• Ensure to eliminate voids at curbs and joints.</li> <li>• Monitor gauges/indicators to ensure continuity and efficient operation.</li> <li>• Inform operator of any screed problem during paving operations.</li> </ul> <p><b>Safety Precautions</b></p> <ul style="list-style-type: none"> <li>• Ensure PPE is worn especially dust mask; goggles, safety gloves and shoes when operating the equipment.</li> <li>• Identify various hazards at work site and take appropriate preventive measures.</li> </ul> <p><b>Reporting and Documentation</b></p> <ul style="list-style-type: none"> <li>• Assist maintain log book of all activities (input and output flow) carried out.</li> <li>• Report any defects which are beyond his scope to the supervisor</li> </ul>	



Sr. No.	Module	Key Learning Outcomes	Equipment Required
3	<p><b>Assist in carrying out routine maintenance and trouble shooting of a paver.</b></p> <p><b>Theory Duration</b> (hh:mm) 12:00</p> <p><b>Practical Duration</b> (hh:mm) 26:00</p> <p><b>Corresponding NOS Code</b> IES/N0163</p>	<p><b>Organisational Context: Acquire working knowledge of the following:</b></p> <ul style="list-style-type: none"> <li>Emergency organisation structure and maintenance policy.</li> <li>Location of special tools and equipment/ accessories.</li> </ul> <p><b>Technical Knowledge. Understand the fundamentals of the following:</b></p> <ul style="list-style-type: none"> <li>Maintenance and service Schedule including related checklists.</li> <li>Common defects and general causes for breakdown.</li> <li>Documents and log books to be maintained for recording activities.</li> <li>Procedures for reporting defects if beyond his scope.</li> </ul> <p><b>Skills - Core &amp; Professional. Acquire the ability to:</b></p> <ul style="list-style-type: none"> <li>In addition to core and generic skills listed above;</li> <li>Plan maintenance &amp; servicing keeping operational needs in mind.</li> </ul> <p><b>Performance Criteria. Execute the following tasks and procedures:</b></p> <p><b>Routine Maintenance:</b></p> <ul style="list-style-type: none"> <li>Clean all parts and components of the screed unit thoroughly.</li> <li>Remove any debris from screed unit; using spray cleaning solvent</li> <li>Check screed unit and lubricate/grease all the pins, screws and pivot joints.</li> <li>Check augur chains and conveyor belts; lubricate and adjust if need be.</li> <li>Assist operator in carrying out scheduled maintenance.</li> <li>Ensure all tools are returned and stored at designated places after usage</li> <li>Perform housekeeping activities whenever required.</li> </ul> <p><b>Repair &amp; Trouble Shooting:</b></p> <ul style="list-style-type: none"> <li>Ensure safety before carrying out maintenance / repairs: <ul style="list-style-type: none"> <li>Turn off mains power from control panel completely.</li> <li>Use battery cut off switch for this purpose</li> <li>Engine should not be running</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Scaled Model of Paver for theory sessions</li> <li>Active Paver at nearby project site for practical sessions</li> <li>Class room with audio-video system</li> <li>Manufacturers O and M Manual &amp; Video</li> <li>Safety video</li> <li>PPE Items &amp; Safety Gear</li> </ul>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>or hot</li> <li>○ Disconnect battery before welding work</li> <li>• Arrange for and assist repairs or replacement of defective components.</li> <li>• Diagnose the defect and rectify; if need be check with operator/supervisor.</li> <li>• Ensure waste is disposed as per guidelines at site.</li> </ul> <p><b>Documentation &amp; Reporting:</b></p> <ul style="list-style-type: none"> <li>• Assist maintain / complete all records/documents as per company policy.</li> <li>• Report defects and problems in time and escalate as necessary</li> </ul>	
4	<p><b>Comply with Worksite Health and Safety Guidelines</b></p> <p><b>Theory Duration</b> (hh:mm) 06:00</p> <p><b>Practical Duration</b> (hh:mm) 10:00</p> <p><b>Corresponding NOS Code</b> IES/N7601</p>	<p><b>Organisational Context. Acquire working knowledge of the following:</b></p> <ul style="list-style-type: none"> <li>• Health, safety, environmental (HSE) policies and guidelines of the company &amp; their importance</li> <li>• Contact details of personnel responsible for HSE related matters &amp; in case of emergencies.</li> <li>• Location of first aid room / station and assembly points.</li> <li>• Reporting channel and documentation procedure for all HSE related matters.</li> </ul> <p><b>Technical Knowledge. Understand the fundamentals of the following:</b></p> <ul style="list-style-type: none"> <li>• OEMs guidelines for health, safety and security requirements.</li> <li>• Types, use and importance of Personal Protective Equipment (PPE)</li> <li>• Types of common hazards and risks at worksite and preventive measures.</li> <li>• In case of emergencies procedure to stop/ shut down machinery.</li> <li>• Common injuries and appropriate basic first aid treatment.</li> <li>• Firefighting equipment: Basic knowledge of handling and using them.</li> <li>• Guidelines for transport, storage and disposal of hazardous materials and waste</li> <li>• Safety signs/symbols and warnings used in worksites and their meaning</li> </ul> <p><b>Skills - Core &amp; Professional. Acquire the ability to:</b></p> <ul style="list-style-type: none"> <li>• In addition to the core and generic skills</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Scaled Model of Paver for theory sessions</u></li> <li>• <u>Active Paver at nearby project site for practical sessions</u></li> <li>• Class room with audio-video system</li> <li>• Organisation's ESH / Safety video</li> <li>• PPE Items &amp; Safety Gear</li> <li>• Firefighting equipment &amp; Charts</li> <li>• First Aid Kit and Charts</li> </ul>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>listed above</p> <ul style="list-style-type: none"> <li>Use correct PPE and other safety gear while in the work site.</li> </ul> <p><b>Performance Criteria. Execute the following tasks and performances:</b></p> <ul style="list-style-type: none"> <li>Comply with safety, health, environment and security related regulations &amp; guidelines at work.</li> <li>Correct use of Personal Protective Equipment (PPE) and other safety gear at work site.</li> <li>Follow safety measures during operations to ensure health and safety of self and others; general public not at risk.</li> <li>Operate fire extinguishers as applicable.</li> <li>Support in administering basic first aid for common injuries at work site.</li> <li>Record and report details as related to operations, incidents or accidents as applicable.</li> </ul>	
	<p><b>Total Duration</b></p> <p><b>Theory Duration</b> <b>40:00</b></p> <p><b>Practical Duration</b> <b>80:00</b></p>	<p><b>Unique Equipment Required:</b></p> <ul style="list-style-type: none"> <li>Scaled Model of Paver for theory sessions</li> <li>Active Paver at nearby project site for practical sessions</li> <li>Adequate stocks of aggregates and consumables.</li> <li>Class room with audio-video projection system</li> <li>Manufacturers O and M Manual &amp; Video; Safety video</li> <li>PPE Equipment: Helmet, masks, gloves, earplugs, goggles, safety shoes</li> <li>Firefighting equipment and 'How to Use' Charts</li> <li>First Aid Box and 'How to Do' Charts</li> </ul>	

Grand Total Course Duration: **120 Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by [Infrastructure Equipment Skill Council](#))

## Trainer Pre-requisites for Job role: “Junior Paver Operator/Screed man” mapped to Qualification Pack: “IES/Q0121, v1.0”

Sr. No.	Area	Details
1	<b>Description</b>	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “IES/Q 0121 Version 1.0”.
2	<b>Personal Attributes</b>	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	<b>Minimum Educational Qualifications</b>	Class 8 <sup>th</sup> ; preferably 10 <sup>th</sup>
4a	<b>Domain Certification</b>	Certified for Job Role: “Junior Paver Operator/Screed man” mapped to QP: “IES/Q 0121 – Version 1.0”. Minimum accepted score 70%. Desired: Certification Training in Paver Operations & Maintenance
4b	<b>Platform Certification</b>	Certified for Job Role: “Trainer” mapped to Qualification Pack: SSC/1402. Minimum accepted score 70%.
5	<b>Experience</b>	<ul style="list-style-type: none"> <li>• Around 3 to 4 years’ site experience in Paver Operations.</li> <li>• At least 1 to 2 years’ experience in conducting O and M training programs.</li> </ul>

<b>Assessment Criteria</b>	
<b>Job Role</b>	<b>Junior Paver Operator/Screed man</b>
<b>Qualification Pack</b>	<b>IES/Q 0121 Version 1.0</b>
<b>Sector Skill Council</b>	<b>Infrastructure Equipment</b>

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 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.

Assessment Outcomes	Assessment Criteria for the outcome	Total Marks	Marks Allocation		
			Out Of	Theory	Skills Practical
1. IES/N0161 Assist in carrying out pre-operational checks on the paver	PC1. Visually inspect the machine with supervisor for any malfunctioning, missing or broken parts	<b>35</b>	3	1	2
	PC2. Check that all the instruction and safety labels are in place and readable		2.5	0.5	2
	PC3. Assist in checking general hydraulic hoses/fittings for any leaks in the paver as per instructions from the operator		3	1	2
	PC4. Inspect screed for excessive wear as per the operational manual		3	1	2
	PC5. Inspect screed heaters and gas lines for serviceability as per instructions from the operator		3	1	2
	PC6. Inspect screed plate, tamping bar and screed attack angle for any damages		3	1	2

	PC7. Check for excessive play in crown jack and their mountings as per instructions from the operator		3	1	2
	PC8. Check for smooth operation of the mat thickness adjusting screws		3	1	2
	PC9. Check the various controls-augers, screed, sensing and control equipment as per instructions from the operator		3	1	2
	PC10. Check for the bolt tightness on screed for free plying a per instructions from the operator		2.5	0.5	2
	PC11. Assist in maintaining a checking/maintenance logbook to record all activities performed before starting the paver operation		3	1	2
	PC12. Report defects precisely to the operator/supervisor if beyond scope of the role		3	1	2
		<b>Total</b>	<b>35</b>	<b>11</b>	<b>24</b>
2. IES/N0162 Assist in operating a paver	PC1. Ensure the screed is clean and properly adjusted for the type of paving to be completed – Crown, cross-slope, etc.	<b>30</b>	2	1	1
	PC2. Assist in pre-heating of paving screed before placement of asphalt		1	0	1
	PC3. Monitor and control temperature settings of the asphalt mixture as per instructions from the operator		2	1	1
	PC4. Adjust the screed paving reference components to the project specification, paving, width, depth (thickness), grade and slope in accordance with manufacturer's instructions		2	1	1
	PC5. Establish the screed-plate angle of attack, position of pre-strike-off plates, and other components		2	0	2
	PC6. Maintain proper contact between gates and the paving surface as per the requirement		1	0	1

	PC7. Adjust springs and chains for clearance as per instructions from the operator		2	1	1
	PC8. Assist the paver operator to fill the auger chamber		1	0	1
	PC9. Check mat thickness and adjust controls as needed to maintain yield		3	1	2
	PC10. Observe distribution of asphalt materials along the screed and control the direction of the screed to eliminate voids at curbs and joints		1	0	1
	PC11. Assist in navigating the direction of the paver as per the requirement of the surface		3	1	2
	PC12. Operate and manipulate cranks and tow points on the back of the asphalt machine that spreads and levels asphaltic concrete on surfaces		1	0	1
	PC13. Observe distribution of asphalt materials from the hopper to the conveyor and to the auger along the screed width		3	1	2
	PC14. Assist the paver operator in attaching extensions to screed to adjust width as per the requirement		1	0	1
	PC15. Carryout adding or removing accessories associated with asphalt equipment as per instructions from the operator		1	0	1
	PC16. Inform operator/supervisor of any screed problems during paver operations		2	1	1
	PC17. Assist the operator in recording input and output flow as per the desired formats of the organization		2	1	1
		<b>Total</b>	<b>30</b>	<b>9</b>	<b>21</b>
3. IES/N0163 Assist in regular maintenance of the paver	PC1. Check and lubricate all screed points as per manufacturer specifications	<b>20</b>	1	0	1

	PC2. Remove any debris from screed and check for hose leaks / cylinders leaks		2	1	1
	PC3. Spray cleaning solvent or release agent on the screed plate, hopper, etc., any place that has come in contact with the mix		1	0	1
	PC4. Lubricate all grease fittings on the auger flight screw, the fitting on the depth screw, and the fittings on the flange bearings located on top of the extension screed. Grease nuts on extension screws		2	1	1
	PC5. Check screws on the rod extensions, tilt screws on the screed pivot		1	0	1
	PC6. Check screed crown on chain and turn buckles for wear and tear		1	0	1
	PC7. Ensure all the tools are kept in the designated place after usage as per organizational guidelines		2	1	1
	PC8. Perform housekeeping activities wherever required		1	0	1
	PC9. Use appropriate tools while troubleshooting		2	1	1
	PC10. Diagnose the problem		1	0	1
	PC11. Dispose waste as per the guidelines of the site/ organization		1	0	1
	PC12. Follow reporting procedures as laid down by the employer		1.5	0.5	1
	PC13. Assist in completing all documentation in the prescribed standards in a timely manner		2	1	1
	PC14. Report defects precisely to the operator/ supervisor if beyond scope of his role		1.5	0.5	1
		<b>Total</b>	<b>20</b>	<b>6</b>	<b>14</b>



