

**Job Role:** Track layer operator**Code** : MIN/Q0431

Sr.No	NOS Code	PC Code	Question	Option A	Option B	Option C	Option D	Answer	Level-E/M/H
1	MIN/N0486	PC1	How will you know about the work to be done on duty place	by my colleague	the worker who need the tracking at their place of work	my supervisor will explain and direct one what to do	none of the three	C	E
2		PC2	What will be process of work done at work place	as directed and explained by the supervisor on duty	as advise by my colleague	as required by the work person who need track line at their place	none of the three are correct	A	E
3		PC2	Life cycle of rail tracks are...	planning and design phase	construction phase	operational and maintenance phase	all three are the process	D	M
4		PC3	Construction and maintenance of track line process are....	the safe geometry tolerances of the track classification to reduce the risk of desailments	identify work places for the maintenance crew	allows for cost effective maintenance since areas do not require geometrical alteration	all three are correct	D	M
5			The "track quality" depends on....	speed of train of tubs	load of train of tubs and weight per kg, mtr length of rail	gauge of rail track and maintenance procedure	all three	D	M
6		PC4	Planning and design of rail track contains...	blueprints/ sketches for the purpose	location plan, constraints and risk of the activity	method and materials to be used and ensure safety codes	all three strp by step to be follow	D	E
7			Track laying quality depends on....	planning and design, sleepers and sleeper fasterings	quality of rail & size of rail dimensions with per kg/mtr/length	quality of fish plates and use of proper ballast	all three	D	E
8		PC5	..... Fish plates should be used	high carbon steel or case hardence	low carbon steel	mild steel	none of three	A	H

9			To facilitate cutting of rail ends centre holes of fish plate must be closer together by	± 4 mm	± 6 mm	± 8 mm	± 10 mm	A	H
10			Fish bolt must be lightened to a torque of.....	140 Nm	240Nm	340Nm	300Nm	C	H
11			At the curve track line.... Should be bend	fish plate	Rail	rail & fish plate both	all of three	C	E
12			bending of fish plates are subject to.....	high lateral forces that ultimately load to failure of joint	no lateral forces that ultimately lead to strengthen a joints	medium lateral forces than can't lead to failure of joints	none of the three	A	H
13			..... Should provide different associated tools for laying/ maintaining/ repairing of the line like revls, dog nails, fish plates, fish bolts, TI sleepers etc.	Owner	Agent	Manager	all three	D	E
14		<b>PC6</b>	To use the rails on the basis of kg/mtr/length depends on....	loads/ train of tubs to be hauled	capacity of the tubs/trolley to be hauled	whether to be used only for material or man riding haulage	all the three	D	M
15		<b>PC7</b>	Width of track line (gauge) depending on....	capacity and size of tubs/ mine/ car/trolley	production to be hauled	A & B both are to be considered during planning	none of the three	C	M
16		<b>PC8</b>	Uniformity of width of track is checked with the help of.... Provided to track layer in u/g mine in normal condition	handy gauge of per feet size made of iron plate	one extra wheel of tub/mine car/ trolley	measuring scale/tape	none of the three	A	E
17		<b>PC9</b>	During laying of track line .....are refered to determine the position of the track line to be laid	plans	blueprints	sketches	all three	D	M
18		<b>PC10</b>	Radios of the curvature should be such for....	smooth hauling of tub/ mine cars	speedy hauling of tubes/ mine cars	anyhow pass the tubs/mine cars	none of three	A	H
19	<b>MIN/N0487</b>	<b>PC1</b>	.....Will describe the job to be done by track layer on duty	supervisor	workers who need the track line to their work place	owner of the mine	surveyor	A	E
20		<b>PC2</b>	Validity of layout and determination of class of line will be verified by...	design plan	mine plan	emergency	rescue plan	A	E

21		<b>PC3</b>	Material quantity requirement will be decided on the basis of...in relation to rails, ballast, sleepers ,fasteners etc.	track length to be laid	length of mine gallery	length of travelling road	none of three	A	E
22			Normal rail length being used in u/g are...	6.1 mtr	9.1 mtr	20 mtr	19.1 mtr	B	E
23			If rail gauge is 610mm, spacing of sleeper should not be more than....	830mm	930mm	730mm	800mm	C	M
24			Length of sleeper size should be (gauge+_____)/not less than gauge+_____	300mm	600mm	350mm	450mm	B	M
25		<b>PC4</b>	Preventive maintenance of track line is necessary for.....	minimum breakdown of track line	utilization of maximum load haul capacity	A & B both are correct	none of three	C	E
26			In case of shortage of material, tools and equipment.... Will be informed before hhaud for better performance	supervisor/official in charge of the mine/pit	attendance clerk/time keeper	store keeper	none of the three	A	E
27		<b>PC5</b>	..... Bolts fish plate should be used at every joint	2	4	6	8	B	E
28			.....should be used to bend rails for curvature	heating & bending	hammering & bending	jim-crow	none of these option	C	E
29			Identify these figures				jim crew spamer hammer sabbal gauge made of steel plate		M
30		<b>PC6</b>	Steps for correct track geometry.....	measure are off sets with 2mtr string and slows the track straight by using qwalas	insert rail jalks for required elevation and rearrange ballast layer	Ekek that all fastenings are correctly installed then re-measure off-set with 2 mtr string	all three steps mentioned are to be followed	D	H

31		<b>PC7</b>	Steps for curve track geometry are....	measure off set with 2 mtr string and compare to standards	jim crow rail to allowable off-set loosening the pantrol clips on re-measure off set to check compliance with design	Faster rail sleepers & insure that all gauge widening plates are correctly installed on the inside of rails	all steps to be followed as in A,B & C	D	H
32		<b>PC8</b>	Efficiency of laid track depends on....	roadway of adequate dimensions	should be of regular gradient and straight	track properly laid with rails with rails of adequate dimensions	all three	D	M
33		<b>PC9</b>	Track gauge should be within tolerance as per....	design	mine car/ tub wheel diameter	mine car/ tub wheel spacing each other	none of three	A	H
34		<b>PC10</b>	Gauge plate/clip combination should be installed as per	design specification	mine car/tub capacity specification	mine car/ tub wheel specification	none of three	A	H
35		<b>PC11</b>	Due to shortage of wood, wooden sleepers should be replaced by...	rail girder sleepers	strainers steel sleepers	steel plate sleepers	none of three	A	M
36		<b>PC12</b>	Install the clamps correctly into....	ballast	earth	track	none of these three	C	E
37		<b>PC13</b>	Place the rails on sleepers and clamps which are.....	fastened correctly with clamps/ dog nails	fastened with floor earth	fastened with ballast on earth	none of the three	A	E
38			.....Rail of the track is kept super elevated at every curvature	outer	inner	both	none of the three	A	M
39		<b>PC14</b>	Thickness of ballast, size of sleepers and size of rails depends on....	axle load of mine car, tub	maximum speed of train of tubs/mine cars	gross annual tonne gage of the haulage & life expectancy	all of three are correct	D	H
40		<b>PC15</b>	Ballast is packed in a....	box form	hip form	cane form	criss cross form	A	M
41		<b>PC16</b>	Sleepers are installed and ensured that they....	tamped correctly	not tamped correctly	tamped anyway	not tamped anyway	A	E

42		<b>PC17</b>	In case of locomotive use in mines speed restriction boards are erected at.....	every starting point	every end point	all conspicuous places in haul road	none of the three	C	M
43		<b>PC18</b>	Pulley and vertical rollers are securely fixed in every... To alter the direction of rope	straight roadway of track line	every curve of track line	everywhere of haulage roading	none of the three	B	E
44			Horizontal rollers are securely fixed throughout the...	travelling road	haulage road	every curvature	none of three	B	M
45		<b>PC19</b>	Running ropes are guide on pulleys or rollers with the help of...	hand	foot	a lever	no need to guide	C	E
46			Stop block is fitted at....	level galleries	dip rise galleries	top of every incline places of haulage road	no where	C	H
47			Stop block is fitted to arrest tubs	in dip galleries	from running or moving out of control	in any curvature	to avoid damage of tubs	B	M
48			Run away switch is fitted....	below stop block	above stop block	any place in haulage road	no need to fit	A	M
49			Run away switch is fitted....	to stop controlled running's tubes	to stop uncontrolled running of tubes	to stop running tubs in level galleries	to stop running tubs in rise galleries	B	H
50			Distance between stop block and run away switch is....	not more than 10mtr of a set/ train of tubs	more than 10 mtr of a set/train of tubs	less than a set/train of tubes	none of the three	A	H
51		<b>PC20</b>	Back stay is attached... Ascending tubs or set or train of tubes	in front of	behind	middle of	none of three are correct	B	E
52			Back stay is attached ascending tubs or set or train of tubes.....	from running back	from running forward	from running anyway	none of the three are correct	A	E
53		<b>PC21</b>	Safety works, jazz rails or other suitable mechanism are fitted to prevent runaway in the.... Direction	level	backward	forward	no need to fit	C	M
54		<b>PC22</b>	Tub rerailers are used to.	carry the rails on tubs	derail the tubs	rerail the derailed tubs in moving state safety	not required	C	E
55			Tub rerailers are kept at a regular intervals as specified	by the supervisor	by track layer	by haulage operator	none of these three	A	M

56			Where tub is rerailed manually..	rop should be in running condition	haulage should be in running condition	rope and haulage should be stopped	no need to do anything for rerailing	C	E
57		<b>PC23</b>	The use of signalling wire fitted in the haulage road is...	to transmit signals to haulage operator	to transmit signal to supervisor	to transmit signal to tracklayer	to transmit signal to banksman	A	E
58			Means of transmitting signal by electrical or mechanical means are installed and maintained at every stopping place to transmit signal to....	supervisor	to track layer	where machinery haulage is operated	too few worker	C	E
59		<b>PC24</b>	At every coupling, uncoupling point of tubs space between tubs and one side of roadway shall be kept not less than	0.5mtr	1mtr	1.5mtr	2mtr	A	H
60		<b>PC25</b>	To avoid accident/incident of work persons working in the direct line of haulage track...or other mechanism are erect	prop	zaj rails	buffer	cross lars	C	E
61		<b>PC26</b>	..... Is installed at every tramming road graneching off the main haulage or near shaft to..	prop	cross bars	buffer	stop block	D	M
62			Stop blocks are fitted/installed at every branching track line of main haulage or near shaft to....	avoide unwanted running of tubs	run away the tubs	speed up the work	none of these three	A	E
63		<b>PC27</b>	To change the track of train of tubs.... Are being used	hand pushing of tubs	switches	hand pulling of tubs	none of the three	B	M
64		<b>PC28</b>	For better performance of machine's should have... Maintenance and oiling	No	regular	without	none of the three	B	E
65		<b>PC29</b>	If needed to make holes in rails and fish plates for insertion of bolts it should be done by using	hammer and chisel	power drills with proper size bits	power drills with a higher size bit	none of the three	B	M
66		<b>PC30</b>	Dog nails/ spikes are being pulled with the help of....	hammer	gauge plate	spike pullers	none of the three	C	E
67		<b>PC31</b>	Ends of new or worm rails made smooth for better joints with the help of..	fixed grinders	portable grinders	hacksaw blades	files	B	M
68		<b>PC32</b>	Graders, tamping machines, brooms or ballast spreading machines are being driven to redistribute gravel or ballast....	outside rails	between rails	between 2 tracks of endless haulage	none of the three	B	M

69		<b>PC33</b>	Push controls to close grasping devices on track or rail sections so that they can be...	down	raised or moved	spread	none of the three	B	H
70		<b>PC34</b>	Turn wheels of machine's, using lever controls, following specifications....	for track alignments or grades	for wheel alignment	for mechine alignment	none of the three	A	H
71		<b>PC35</b>	Operate tie adzing machines to cut ties and permit insertion of fish plates that holds.....	Sleepers	Rails	Ballast	ground	B	M
72		<b>PC36</b>	spray ties, fish plates, or joints with..... To protect them from weathering	water	malail oil	petrol	none of these three	B	E
73	<b>MIN/N0901</b>	<b>PC1</b>	Following persons are responsible for " safety management plan" and its implementation.....	avoid	agent of the mine	manager of the min	all three	D	H
74			Following employees in mines should be sent for training as per V.T rules.....	newly appointed	all for refresher training one in every five year(maximum)	every employee who suffer from serious injury	all three	D	H
75		<b>PC2</b>	.... Are responsible to provide necessary aids for safety and health as recommended by safety committee	owner	agent	manager	all three	D	M
76			To avoided spontaneous heating fallen/spallen coal of old working not sealed off shall be....	cleaned and transported to surface	properly ventilated to avoided oxidation of coal	inspected at regular interval and checked co formed / O2 observed ratio	all three	D	H
77		<b>PC3</b>	If you see any injured person in mine...	he should be shifted from place of injury to safe place	inform any official/competent person for his first aid	help him to go to surface if he is not able to work further it official permit	all three	D	E
78			flame safty lamp carried by an official or competent person shall be kept.....	not with unauthorised person	not unattended	away from the place of flying rock	all three	D	M

79			Persons feel flame safety lamp more reliable than digital gas detectors because.....	it detects gas on natural way	maintenance is very easy and can't fail or wrong reading	digital gas detector need maintenance and calibration at regular interval in an approved lab.	all three	D	E
80			All electrical equipment's in U/G coal mines should be flame proof or intrinsically safe because.....	avoid any incident /accident due to electrical spark e.g. Fire explosion	Rules ,regulations say no for safety	A & B both are correct	cost increases of equipment	C	E
81		<b>PC5</b>	Will gain knowledge about various grades of fire extinguishers and update the knowledge by...	Training at training centre	by mock rehearsals in the supervision of trainer	refresher training at training centres	all three	D	M
82			Can soda acid type fire extinguisher be used for fighting fire of electrical apparatus	yes	no	yes if other type of fire extinguishers are not available at site	depending upon scale of fire	B	H
83		<b>PC6</b>	.....persons can transmit signals to haulage operator	only track layer	only officer/ competent person or authorised person	any person using travelling road	any person going to mine	B	M
84			Printed copy of code of signals are kept at....	haulage room to see haulage operator	near all place where tubs are coupled uncoupled	near all conspicuous places & where ropes are connected disconnected with tubs	all three	D	E
85		<b>PC8</b>	Misfire of explosives mean	explosives fail to detonate as planned during blasting	a fire occurs in explosives kept in mine	accidents occurred due to explosive blasting	none of these	A	E



86			Misfire of explosives are dealt with by...	testing/blasting individual holes by blasting one by one	drilling parallel holes by the same driller	same shot firer will blast relieving holes with due regards of safety	all three steps	D	M
87		<b>PC9</b>	Post blast fumes mean...	fumes created during priming of explosives	fumes created during steaming of explosives	fumes created after blasting of explosives	none of these	C	E
88			During blasting in u/g mine shelter shall be taken.....	in the district return side	anywhere in the mine	intake side, fixed by the supervisor	none of these are correct	C	E
89			"Reserve station" in mine mean....	where reserve/spare person wait/sit	where reserved equipment's are kept for emergency	where oil and grease are kept in reserve for future use	Where explosives and detonations are kept for use in same shift	D	E
90			The use of hard hat/helmet in mines...	for dress code	for others safety	for safety of the persons who wear/ use it	none of the three	C	E
91		<b>PC10</b>	Name of the disease caused by inhalation of coal dust is...	silicosis	fibrosis	pneumoconiosis	decentry	C	H
92			It is necessary to wear safety gears such as helmet, shoes, earmuffs, goggles etc. as required on type of move are because of...	the safety of the person (himself) working in mine	dress code	mine employee identification	none of these	A	E
93			Manufacturer's instruction should be followed in view of any equipment & machinery because of.....	better house keeping	better care & maintenance	increase the life of equipment & machinery	All three purpose	D	E