Model Curriculum

TFO Tenter

SECTOR: TEXTILE
SUB-SECTOR: SPINNING
OCCUPATION: POST SPINNING
REF. ID: TSC/Q 0303, VERSION 1.0
NSQF LEVEL: 4

Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

TEXTILE SECTOR SKILL COUNCIL

for the

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: 'TFO TENTER' QP No. 'TSC/ Q 0303' **NSQF Level 4**'

Date of Issuance: **January, 18th, 2016**

Valid up to: **January 17th, 2017**

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

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Director (C&T)
(Textile Sector Skill Council)

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TFO Tenter

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "TFO Tenter", in the "Textile" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	TFO Tenter		
Qualification Pack Name & Reference ID.	TFO Tenter TSC/Q0303, version 1.0		
Version No.	1.0	Version Update Date	18-01-2016
Pre-requisites to Training	Preferably equivalent to 5th (Normal literacy of reading, writing and understanding)		
Training Outcomes	**After completing this programme, participants will be able to:** • Become well verse with taking charge of shift and handing over shift • Learn and perform creeling and knotting the yarn • Perform doffing activities • Perform cleaning and maintenance activities • Maintain work area, tools and machines • Gain behavioural skill for team working • Maintain health, safety and security at work place • Comply with industry and organisational requirement		

This course encompasses 8 out of 8 National Occupational Standards (NOS) of "TFO Tenter" Qualification Pack issued by "TSC: Textile Sector Skill Council"

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Taking charge of shift and handing over shift to tenter **Theory Duration** (hh:mm) 12:15 **Practical Duration** (hh:mm) 25:00 **Corresponding NOS Code** TSC/N 0309	• Learning general discipline • Become well verse with basic skills of communication • Understand the role of TFO tenter • Perform tasks while taking charge of shift and handing over shift • Become familiar in faults identification	Class room requirements: a batch of 25 people seating capacity with a screen and projector
2	**Creeling and knotting/splicing the yarn** **Theory Duration** (hh:mm) 24:00 **Practical Duration** (hh:mm) 51:00 **Corresponding NOS Code** TSC/N 0310	• Gain knowledge on machine parts & its function related to the respective module • Starting and stopping machine • well verse in knotting/splicing the yarn • practicing on spindle braking • practicing on making end in pot using nylon wire • Gain knowledge on colour coding system • Knowing the cheese defects and cleaning the same • handling full and empty cheeses • handling cheese trolley and fetching cheeses to TFO • patrolling machine and identify cheese exhaust, broken end, idle drum, etc. • replenishing cheese and start drum • knotting/splicing broken yarn • Perform Quality roving piecing	1. A sample of following items for each trainee: Cheese package, empty cheese, hand knotter/splicer, nylon wire, trolley 2. common for every batch: poster/video visuals for work method and machine parts 3.Class room requirements: a batch of 25 people seating capacity with a screen and projector
3	**Carry out doffing activities** **Theory Duration** (hh:mm) 12:45 **Practical Duration** (hh:mm) 32:00 **Corresponding NOS Code** TSC/N 0311	• Gain knowledge on machine parts & its function related to the respective module • Gain knowledge on cone defects • Familiar with colour coding system on count identification • Starting and stopping machine for doffing • Handling cone trolley • Patrolling machine for doffing cones • Doffing cone package and start drum	1. A sample of following items for each trainee: Cone package, empty cone, nylon wire, trolley, weighing balance 2. common for every batch: poster/video visuals for work method and machine parts 3.Class room requirements: a batch of 25 people seating capacity with a screen and projector

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		• Carrying/Transporting materials before and after doffing using trolley • Handle weighing balance • Check cone weight and store in place	
4	**Carryout cleaning and maintenance activities** **Theory Duration** (hh:mm) 14:30 **Practical Duration** (hh:mm) 34:00 **Corresponding NOS Code** TSC/N 0312	• Knowing Importance of cleaning activities • knowing Responsible items for sider in TFO in cleaning and maintenance • knowing Procedure and tools used for cleaning and maintenance	1. A sample of following items for each trainee: Cleaning tools such as cleaning brush, lapping cleaning hook
5	**Maintain work area, tools and machines** **Theory Duration** (hh:mm) 06:00 **Practical Duration** (hh:mm) 13:00 **Corresponding NOS Code** TSC/N 9001	• Gain knowledge on Housekeeping system • Identification of basic hand tools like cleaning hook, cleaning stick, bag, etc. • handling equipments • perform Maintenance activities for handling equipments	Class room requirements: a batch of 25 people seating capacity with a screen and projector
6	**Working in a team** **Theory Duration** (hh:mm) 07:00 **Practical Duration** (hh:mm) 12:00 **Corresponding NOS Code** TSC/N 9002	• Understanding the team work and its importance • Knowing the basic requirements for team working	2.Class room requirements: a batch of 25 people seating capacity with a screen and projector
7	**Maintain health, safety and security at work place** **Theory Duration** (hh:mm) 16:30	• Knowing the general safety Rules • Knowing the importance of personal protective equipment like apron, cap, earplugs, nose mask etc. and their application under different working conditions. • Gain knowledge on various health hazards relevant to workplace and basic first aid training.	1. A sample of following items for each trainee: apron, head cap, nose mask, ear plug, shoe, 2. common for every batch: first aid materials, fire extinguisher, work method posters/pictures, 3.Class room requirements: 25

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Practical Duration (hh:mm) 21:00 **Corresponding NOS Code** TSC/N 9003	• Identify and select right equipment such as fire extinguisher & based on type of fire. • Become good practice on first aid, firefighting etc.	people seating capacity with a screen and projector
8	**Comply with industry and organisational requirement** **Theory Duration** (hh:mm) 07:00 **Practical Duration** (hh:mm) 12:00 **Corresponding NOS Code** TSC/N 9004	• Know about organizational and industry standards • Know the requirements for self-development • Gain knowledge on Organizational & Industry standards	2.Class room requirements: a batch of 25 people seating capacity with a screen and projector
	Total Duration: **Theory Duration** **100:00** **Practical Duration** **200:00**	**Unique Equipment Required:** • Nylon wire, hand knotter/splicer, Lapping cleaning hook, cheese trolley, cone trolley, weighing balance, empty cone, empty cheese, cleaning brush, sweep stick, apron, head cap, nose mask, ear plug, shoe, first aid materials, fire extinguisher, work method posters, work method video visuals, projector, screen	

Grand Total Course Duration: 300 Hours, 0 Minutes

(This syllabus/ curriculum has been approved by TSC: Textile Sector Skill Council)

Trainer Prerequisites for Job role: "TFO Tenter" mapped to Qualification Pack: "TFO Tenter /TSC Q 0303, Version 1.0"

Sr. No.	Area	Details
1	**Description**	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack "TFO Tenter/TSC Q0303, Version 1.0".
2	**Personal Attributes**	Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organized and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	**Minimum Educational Qualifications**	Preferably equivalent to 5th (Normal literacy of reading, writing and understanding)
4a	**Domain Certification**	Certified for Job Role: "TFO Tenter" mapped to QP: "TFO Tenter/TSC Q0303, Version 1.0". Minimum accepted score 80%.
4b	**Platform Certification**	Required that the Trainer is certified for SSC/Q 1402 Job Role: "Trainer" with atleast 80% score
5	**Experience**	Minimum 5 years experience with TFO Tenter

Annexure: Assessment Criteria

Assessment Criteria for TFO Tenter	
Job Role	TFO Tenter
Qualification Pack	TFO Tenter (TSC/ Q 0303)
Sector Skill Council	Textile Sector Skill Council

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 & skill practical for each PC.
2	The assessment for the theory part will be based on knowledge bank of question 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 these criteria.
5	To pass the qualification pack, every trainee should score a minimum of 70%.
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

Nation al Occup ational Standa rds (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practi cal	Viva
1.**TSC/ N0309 (Takin g charge of shift and handin g over shift to TFO Tenter)**	PC1. reach the work place at least 10 - 15 minutes	**100**	2	1	**1**	**0**
	PC2. bring the necessary operational tools to the department		3	1	**1**	**1**
	PC3. meet the previous shift operator and discuss with him/ her regarding the issues faced with respect to the quality, production, spare, safety or any other specific instruction etc.		4	1	**1**	**2**
	PC4. Understand the count produced, color coding followed in the TFO for his allocated number of spindles or machines		4	1	**1**	**2**
	PC5. Ensure the technical details are mentioned in the display board in the TFO machine		3	1	**1**	**1**
	PC6. check for the availability of the paralleled cheese package		3	1	**1**	**1**
	PC7. check the availability of cheese package trolley with technical details mentioned regarding the count being produced		4	1	**2**	**1**
	PC8. Check that the yarn passage and doubled yarn formation is proper		3	1	**1**	**1**
	PC9. Check for the run outs and availability of the cheese package in the pot		4	1	**2**	**1**
	PC10. Ensure all the spindles are running properly, if not enquire the reason for idle spindle and report to the superiors regarding the same		4	1	**2**	**1**
	PC11. Check the condition of different running spindles		4	1	**3**	**0**
	PC12. Ensure proper functioning of TFO machine parts and machine		3	1	**1**	**1**
	PC13. Ensure all allocated spindles are running with uniform length of yarn is wound on cone, variations if any should be discussed with operator and reported to superiors		4	1	**2**	**1**
	PC14. Check the condition of running spindles and report damages, if any		3	1	**1**	**1**
	PC15. Check the cleanliness of the machines and other work areas		3	1	**1**	**1**
	PC16. Check whether any spare/raw material/ tool / yarn / any other material are thrown under the machines or in the other work areas.		4	1	**2**	**1**
	PC17. Ask the previous shift operator for any deviation in the above and should bring the same to the knowledge of his/ her shift superior and the superior of the previous		3	1	**1**	**1**
	PC18. Ensure proper passage of yarn though pig tail guide to avoid twist variations and defective		4	1	**2**	**1**

Nation al Occup ational Standa rds (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practi cal	Viva
	PC19. Ensure the waste collection boxes are empty while taking charge of shift		4	1	**2**	**1**
	PC21. Ensure the OHTC is working properly		2	1	**1**	**0**
	PC22. Hand over the shift to the incoming TFO tenter in a proper manner		3	1	**1**	**1**
	PC23. Provide the details regarding count produced, colour coding followed in the TFO for his allocated number of spindles or		4	2	**1**	**1**
	PC24. Provide all relevant information regarding the count produced, idle spindles, damaged machine parts if any		4	2	**0**	**2**
	PC25. Get clearance from the incoming counterpart before leaving the work place		4	2	**0**	**2**
	PC26. Report to his/ her shift superior and the incoming shift operator in case his/ her counterpart does not report for the incoming shift		4	1	**0**	**3**
	PC27. Ensure the shift is properly handed over to the incoming shift operator		3	1	**1**	**1**
	PC28. Report to his/ her shift superior about the quality / production / safety issues/ any other issue faced in his/ her shift and should leave the department only after getting concurrence for the		4	1	**1**	**2**
	PC29. Collect the waste from waste collection bags, weigh them and transport to storage		3	1	**1**	**1**
	PC30. Ensure that the work spot is clean		3	1	**1**	**1**
	Total		**100**	**32**	**35**	**33**
	Weightage %			**32**	**35**	**33**
2. TSC/N0 310 (Creeli ng and knotti ng / splicin g the yarn at TFO)	PC1. Bring the paralleled cheese package in the cheese trolley from storage area	**200**	4	1	**3**	**0**
	PC2. Ensure correct color coded cheese is taken to TFO section for creeling		4	1	**2**	**1**
	PC3. Identify cheese exhausts and remove the empty cheese		4	1	**2**	**1**
	PC4. Ensure proper material handling of cheese and cheese trolley		4	1	**2**	**1**
	PC5. Ensure color coding of feed in the creel is correct		3	1	**1**	**1**
	PC6. Ensure minimum time is taken for attending the cheese exhaust or cheese		3	1	**1**	**1**
	PC7. Ensure color coding of feed in the creel is		3	1	**1**	**1**

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practical	Viva
	PC8. Before taking empty cheese from inner pot lift the drop wire first		4	2	**2**	**0**
	PC9. Lift the cheese spindle and properly mount the full cheese		4	2	**2**	**0**
	PC10. Creel the cheese in the creel stand and ensure the cheese is properly fixed in the cheese		4	1	**2**	**1**
	PC11. Take the flyer out and put it on pigtail guide		4	1	**2**	**1**
	PC12. Turn the pigtail, else cut end cheese may be formed.		5	1	**3**	**1**
	PC13. Clean the inner pot using cloth.		5	2	**3**	**0**
	PC14. After cleaning, take the tension variator out and replace it with full cheese		5	2	**2**	**1**
	PC15. Re-fix the tension variator and flyer.		4	2	**2**	**0**
	PC16. Take the yarn from cheese and pass through the flyer through wire		5	2	**3**	**0**
	PC17. Ensure minimum time is taken for creeling the cheese package during exhaust or		4	1	**2**	**1**
	PC18. Patrol around the machine to ensure proper production of ply yarn		4	1	**2**	**1**
	PC19. Ensure minimum time is taken for attending the breaks		3	1	**1**	**1**
	PC20. When there is any break, clean the cone (as specified length), ensure proper		4	1	**2**	**1**
	PC21. Lift the drop wire		4	1	**3**	**0**
	PC22. Take the flyer and tension variator out and store in a suitable place.		4	1	**3**	**0**
	PC23. Take the cheese package and identify defects, if any		4	1	**2**	**1**
	PC24. Remove defects in the cheese package, if any		5	1	**3**	**1**
	PC25. Feed the cleaned cheese into the inner pot		5	1	**3**	**1**
	PC26. Ensure defect free cheese is fed in the pot		4	1	**2**	**1**
	PC27. Fix the flyer and tension variator in a correct position		4	1	**2**	**1**
	PC28. Take the yarn from cheese and pass through the flyer through proper material		5	2	**2**	**1**
	PC29. Stop the spindle by applying brake.		4	1	**2**	**1**
	PC30. Insert the nylon wire/ or appropriate tool through the tension variator		4	1	**2**	**1**
	PC31. Tie the yarn at the piecing wire properly		4	2	**1**	**1**
	PC32. Pull out the wire by holding the front end through the reserve disc		5	2	**3**	**0**
	PC33. Take the yarn through pig tail guide		5	2	**3**	**0**

Nation al Occup ational Standa rds (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practi cal	Viva
	PC34. Release the brake		4	2	**1**	**1**
	PC35. Ensure proper time is taken for tying / knotting/splicing the yarns, so that to insert-required amount of twist to the untwisted		5	2	**2**	**1**
	PC36. Cut the yarn passing through pre-take up roller in the cone		4	1	**2**	**1**
	PC37. Engage the cradle		4	1	**2**	**1**
	PC38. Engage the drop wire		4	1	**2**	**1**
	PC39. Mark the brakes		3	1	**2**	**0**
	PC40. Ensure releasing the brakes		5	1	**3**	**1**
	PC41. Knot/splice the ends using knotter/splicer		5	1	**3**	**1**
	PC42. Ensure the size of knot / splices minimal		4	2	**2**	**0**
	PC43. To ensure proper procedure for knotting/splicing the yarn		4	1	**2**	**1**
	PC44. While processing knotless yarn broken ends to be overlapped on the cone as instructed		4	1	**2**	**1**
	PC45. Ensure proper material handling of cheese and cone package		3	1	**1**	**1**
	PC46. Ensure proper yarn passage &tension variator position post knotting/splicing		4	1	**2**	**1**
	PC47. Ensure proper procedure for operating material handing tools and knotting/splicing		3	1	**1**	**1**
	PC48. Ensure safety while carrying out creeling and knotting/splicing activities		4	1	**2**	**1**
	PC49. Ensure cleanliness at workplace		3	1	**1**	**1**
	Total		**200**	**62**	**101**	**37**
	Weight age %			**31**	**51**	**18**
3.TSC/ N0311 (Carry out doffin g activiti es at TFO)	PC1. Follow the plan as instructed by superiors for performing doffing activities at various machines in TFO department	**120**	4	1	**1**	**2**
	PC2. Identify the machine in the TFO department which is ready for doffing		5	1	**2**	**2**
	PC3. Ensure minimum time is taken for identifying the machine to carryout doffing		4	1	**2**	**1**
	PC4. Ensure in confirming the machine with the superiors for carrying out doffing activity		4	1	**2**	**1**
	PC5. Ensure the cone is wound up to the required length or weight of yarn is wound on cone		4	1	**2**	**1**
	PC6. Check the cone package is fully would to the predetermined length or weight and		5	2	**2**	**1**

Nation al Occup ational Standa rds (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practi cal	Viva
	PC7. Before taking doffs take empty cone from empty cone peg stand and ensure count		4	1	**2**	**1**
	PC8. Remove full cone from cone holder		4	1	**2**	**1**
	PC9. Keep doffed cone in the peg trolley		4	1	**2**	**1**
	PC10. Either stop the machine for doffing or doff the cone package while the machine is running as per the instructions of the supervisor		4	1	**2**	**1**
	PC11. Ensure proper procedure is adopted for doffing the cone package		4	1	**2**	**1**
	PC12. Ensure proper material handling of cone		4	1	**2**	**1**
	PC13. Ensure safety while carrying out doffing		5	2	**2**	**1**
	PC14. Weigh the cone package and ensure the required weight have been achieved		5	1	**3**	**1**
	PC15. Fix the cone in the cone spindle and run it again till the cone reaches the predetermined weight as instructed by superiors		4	1	**2**	**1**
	PC16. Place the cones in the cone trolley and store in the storage area as instructed		4	1	**2**	**1**
	PC17. Reserve the empty paper cones in the reserve area for doffing		3	1	**1**	**1**
	PC18. Move cone trolley to cone staking area and remove approx. (as per prescribed length) of yarn, ensure		4	1	**2**	**1**
	PC19. After doffing insert the empty cone		4	1	**2**	**1**
	PC20. Ensure proper color coded empty paper cone is mounted in the spindle.		3	1	**1**	**1**
	PC21. Put tail end of minimum (as prescribed length) on the base of the empty cone before		4	1	**2**	**1**
	PC22. Do the necessary changes and follow the instructions of the superiors.		5	2	**2**	**1**
	PC23. Ensure the proper passage of yarn in the TFO machine		4	1	**2**	**1**
	PC24. Take the empty cheese from inner pot, feed the full cheese (the yarn taken from cheese in clockwise direction) and pass the yarn through the		4	1	**2**	**1**
	PC25. Fix the cone tightly on cantering disc nose and base side		4	1	**2**	**1**
	PC26. Release the brake		4	1	**2**	**1**
	PC27. Insert the nylon wire/appropriate prescribed tool through the tension variator until it comes out through the exit of the spindle and the yarn from flyer tied with the tail end of the wire, pull out the wire through reserve disc, pig tail guide.		5	2	**2**	**1**
	PC28. Engage the drop wire		4	1	**2**	**1**

Nation al Occup ational Standa rds (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practi cal	Viva
	PC29. Ensure releasing of brake , proper yarn passage &		4	1	**2**	**1**
	T		**120**	**33**	**56**	**31**
	Weight			**28**	**47**	**25**
4.TSC/ N0312 (Carry out cleanin g and mainte nance activiti es at TFO)	PC1. Schedule the cleaning maintenance activities	**130**	5	2	**1**	**2**
	PC2. Carry out cleaning maintenance activities		5	1	**3**	**1**
	PC3. Clean the creeling area		4	1	**2**	**1**
	PC4. Ensure cleanliness in the yarn passage		4	1	**2**	**1**
	PC5. Clean the inner pot using cloth		3	1	**1**	**1**
	PC6. Ensure proper cleaning of different mechanisms in		4	1	**2**	**1**
	PC7. Deposit the yarn waste in the waste collection pocket provided to each tenter and finally deposit in the waste collection box		5	2	**3**	**0**
	PC8. Remove the cleaned waste and store in a separate area		4	1	**2**	**1**
	PC9. Clean the alley around the TFO machine using proper cleaning equipment		4	1	**2**	**1**
	PC10. Ensure the waste collected from different parts of machine are deposited in the respective		4	1	**2**	**1**
	PC11. Ensure the TFO department is neat and clean		3	1	**1**	**1**
	PC12. Ensure proper functioning of machine		3	1	**1**	**1**
	PC13. Check and verify the quality of different machine parts		4	1	**2**	**1**
	PC14. Ensure taking care of yarn passage, tension variator position		4	1	**2**	**1**
	PC15. Support fitter in removing the worn out parts and replace with new parts in TFO machine		4	1	**2**	**1**
	PC16. When spindle tape when the spindle tape is cut, immediately cut the yarn from the cheese and remove cone of respective tape in case of 4 spindle drive 4 to be removed in case of		5	1	**3**	**1**
	PC17. Check TPI from relevant department (qad/ sqc/r&d) to ensure proper twist and run		5	2	**2**	**1**
	PC18. Remove and replace worn out parts		4	1	**2**	**1**
	PC19. Oil the different parts of TFO machine on need basis		4	1	**2**	**1**
	PC20. Check top arm lifting		4	1	**2**	**1**
	PC21. Check OHTC air blowing		4	1	**2**	**1**
	PC22. Report to the supervisor and maintenance fitter if any problems are observed in the smooth functioning of the machine		6	2	**1**	**3**
	PC23. Ensure the OHTC is working		3	1	**1**	**1**
	PC24. Carry out preventive maintenance activities at specified intervals		4	1	**2**	**1**

Nation al Occup ational Standa rds (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practi cal	Viva
	PC25. Check the count board, cheese color, cone tip color end other given instructions		4	1	**2**	**1**
	PC26. Record the production details in the production report		4	1	**2**	**1**
	PC27. Report to the supervisor in case of emergency stoppage of machine		5	2	**1**	**2**
	PC28. Report to the supervisor and maintenance in charge if the operator was able to replace the worn out machine part with a new one.		5	2	**1**	**2**
	PC29. Support the maintenance team while machine is under maintenance		4	1	**2**	**1**
	PC30. Ensure all details related to production are provided the next shift		5	2	**1**	**2**
	PC31. Ensure count wise storage of damaged cones in a separate area		4	1	**2**	**1**
	T		**130**	**38**	**56**	**36**
	Weight			**29**	**43**	**28**
5.TSC/ N9001 (Maint ain work area, tools and machin es)	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way	**50**	4	1	**2**	**1**
	PC2. use correct lifting and handling procedures		4	1	**2**	**1**
	PC3. use materials to minimize waste		3	1	**1**	**1**
	PC4. maintain a clean and hazard free working area		3	1	**1**	**1**
	PC5. maintain tools and equipment		4	2	**1**	**1**
	PC6. carry out running maintenance within agreed schedules		4	1	**2**	**1**
	PC7. carry out maintenance and/or cleaning within one's responsibility		4	1	**2**	**1**
	PC8. report unsafe equipment and other dangerous occurrences		4	1	**2**	**1**
	PC9. ensure that the correct machine guards are in		3	1	**1**	**1**
	PC10. work in a comfortable position with the correct posture		3	1	**1**	**1**
	PC11. use cleaning equipment and methods appropriate for the work to be carried out		3	1	**1**	**1**
	PC12. dispose of waste safely in the designated		4	1	**2**	**1**
	PC13. store cleaning equipment safely after use		3	1	**1**	**1**
	PC14. carry out cleaning according to schedules and limits of responsibility		4	1	**2**	**1**
	Total		**50**	**15**	**21**	**14**
	Weight age %			**30**	**42**	**28**

Nation al Occup ational Standa rds (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practi cal	Viva
6.TSC/ N9002 (Worki ng in a team)	PC1. be accountable to the own role in whole	50	4	2	**1**	**1**
	PC2. perform all roles with full responsibility		4	2	**1**	**1**
	PC3. be effective and efficient at workplace		5	2	**2**	**1**
	PC4. properly communicate about company policies		4	1	**1**	**2**
	PC5. report all problems faced during the process		4	1	**1**	**2**
	PC6. talk politely with other team members and colleagues		4	1	**1**	**2**
	PC7. submit daily report of own performance		5	2	**2**	**1**
	PC8. adjust in different work situations		4	2	**1**	**1**
	PC9. give due importance to others' point of view		4	1	**2**	**1**
	PC10. avoid conflicting situations		4	1	**1**	**2**
	PC11. develop new ideas for work procedures		4	1	**2**	**1**
	PC12. improve upon the existing techniques to increase process efficiency		4	1	**2**	**1**
	T		**50**	**17**	**17**	**16**
	Weight			**34**	**34**	**32**
7.TSC/ N9003 (Maint ain health, safety and securit y at work place)	PC1. comply with health and safety related instructions applicable to the workplace	100	5	2	**2**	**1**
	PC2. use and maintain personal protective equipment such as " ear plug" " nose mask " " head cap" etc., as per protocol		5	2	**2**	**1**
	PC3. carry out own activities in line with approved guidelines and procedures		4	2	**1**	**1**
	PC4. maintain a healthy lifestyle and guard against dependency on intoxicants		4	2	**1**	**1**
	PC5. follow environment management system related procedures		4	2	**1**	**1**
	PC6. identify and correct (if possible) malfunctions in machinery and equipment		5	2	**2**	**1**
	PC7. report any service malfunctions that cannot be rectified		4	2	**1**	**1**
	PC8. store materials and equipment in line with organizational requirements		4	1	**2**	**1**
	PC9. safely handle and remove waste		4	1	**2**	**1**
	PC10. minimize health and safety risks to self and others due to own actions		5	2	**2**	**1**
	PC11. seek clarifications, from supervisors or other authorized personnel in case of		4	2	**0**	**2**

Nation al Occup ational Standa rds (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practi cal	Viva
	PC12. monitor the workplace and work processes for potential risks and threat		5	2	**2**	**1**
	PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned		5	2	**2**	**1**
	PC14. report hazards and potential risks/ threats to supervisors or other authorized personnel		4	1	**2**	**1**
	PC15. participate in mock drills/ evacuation procedures organized at the workplace		4	2	**2**	**0**
	PC16. undertake first aid, fire-fighting and emergency response training, if asked to do so		5	2	**2**	**1**
	PC17. take action based on instructions in the event of fire, emergencies or accidents		5	2	**2**	**1**
	PC18. follow organization procedures for shutdown and evacuation when required		4	2	**1**	**1**
	PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry		4	2	**1**	**1**
	PC20. recognize other possible security issues existing in the workplace		4	2	**1**	**1**
	PC21. recognize different measures to curb the		4	2	**1**	**1**
	PC22. communicate the safety plan to everyone		4	2	**1**	**1**
	PC23. attach disciplinary rules with the		4	2	**1**	**1**
	T		**100**	**43**	**34**	**23**
	Weight			**43**	**34**	**23**
8.TSC/ N9004 (Compl y with industr y and organi zation al require ment)	PC1. perform own duties effectively	**50**	4	1	**2**	**1**
	PC2. take responsibility for own actions		4	1	**2**	**1**
	PC3. be accountable towards the job role and assigned duties		4	2	**1**	**1**
	PC4. take initiative and innovate the existing		3	1	**1**	**1**
	PC5. focus on self-learning and improvement		4	1	**2**	**1**
	PC6. co-ordinate with all the team members and colleagues		4	1	**2**	**1**
	PC7. communicate politely		4		**1**	**2**
	PC8. avoid conflicts and miscommunication		4	1	**2**	**1**
	PC9. know the organizational standards		4	2	**1**	**1**
	PC10. implement them in your performance		4	1	**2**	**1**
	PC11. motivate others to follow them		3	1	**1**	**1**
	PC12. know the industry standards		4	3	**1**	**0**
	PC13. align them with organization standards		4	2	**1**	**1**

Nation al Occup ational Standa rds (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory	Skills Practi cal	Viva
	Total		**50**	**18**	**19**	**13**
	Weightage %			**36**	**38**	**26**
GRAND TOTAL		**800**		**258**	**339**	**203**

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