

Model Curriculum

Beam Carrier - Loader

SECTOR : TEXTILE
SUB-SECTOR : WEAVING - TEXTILES
OCCUPATION : MATERIAL HANDLING & WASTE
MANAGEMENT -
REF ID WEAVING : TSC/Q2601, V3.0
NSQF LEVEL : 2



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: 'Beam Carrier -

Loader' QP No. 'TSC/Q2601' **NSQF Level 2**

Date of Issuance: January, 27th, 2022

Valid up to: January, 27th, 2025

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



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Beam Carrier - Loader

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Beam Carrier - Loader”, in the “Textile” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Beam Carrier - Loader		
Qualification Pack Name & Reference ID.	Beam Carrier - Loader TSC/Q2601		
Version No.	3.0	Version Update Date	27.01.2022
Pre-requisites to Training	<ul style="list-style-type: none"> • Able to read and write • Min Age: 18 Year 		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Demonstrate activities involved in taking charge of shift and handing over shift of Beam Carrier - Loader • Carry out beam loading and unloading activities • Maintain work area, tools and machines as per weaving mill guidelines • Work effectively in a team • Describe the importance of health, safety and security at workplace 		

This course encompasses 6 out of 6 National Occupational Standards (NOS) of “Beam Carrier - Loader” 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 Beam Carrier - Loader Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 30:00 Corresponding NOS Code TSC/N2601	<ul style="list-style-type: none"> Explain the different types of fabrics and its usage Describe the importance of general discipline at workplace Describe the weaving process flow Discuss the loading/ unloading task with the incoming and outgoing counterpart Describe the role of Beam carrier - loader Demonstrate the activities involved in taking charge of shift and handing over of shift Recall the material flow in the weaving industry Identify the beam/ trolley faults and report as per the industry standard 	<ul style="list-style-type: none"> Computer and Projector Beam transportation trolley Beam Cone Package
2.	Carrying Beams, loading, unloading materials from the vehicles Theory Duration (hh:mm) 45:00 Practical Duration (hh:mm) 120:00 Corresponding NOS Code TSC/N2602	<ul style="list-style-type: none"> Describe the parts and functions of loading/ unloading machines Describe the importance of trolley maintenance Demonstrate beam/ cone storage as per the industry standard Demonstrate beam cleaning activity Record the loading/ unloading information in the given log book or ledger List the need and importance operational tools required for beam/ cone transportation Demonstrate the activities involved in trolley preparation 	<ul style="list-style-type: none"> Computer and Projector Beam transportation trolley Beam Cone Package
3.	Maintain work area, tools and machines Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code TSC/N9001	<ul style="list-style-type: none"> Maintain the workplace clean and neat Describe the functions of basic hand tools List out the available material handling equipment in weaving unit List the various maintenance activities for loading/ unloading trolley Describe the importance of machine guard List out the oil drop points in the loading/ unloading trolley Demonstrate the correct way of lifting tools/ equipment as per standard procedure 	<ul style="list-style-type: none"> Computer and Projector Beam transportation trolley Beam Cone Package

Sr. No.	Module	Key Learning Outcomes	Equipment Required
4.	Working in a team Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code TSC/N9002	<ul style="list-style-type: none"> Describe the need for greasing the ball bearings and the greasing frequency Discuss the importance of team work List out the team work activities in loom shed Discuss the process involved in loom gaiting process and roles of Beam Carrier - Loader/ helper in gaiting operation Demonstrate warp beam positioning on the loom Demonstrate heald frame installation on the loom along with team mates Explain the company policies Submit daily report of the own performance Report the daily work done to supervisory as per company's protocol 	<ul style="list-style-type: none"> Computer and Projector Beam transportation trolley Beam Cone Package
5.	Maintain health, safety and security at workplace Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 30:00 Corresponding NOS Code TSC/N9003	<ul style="list-style-type: none"> Discuss the importance of wearing Personal Protective Equipment in the Automatic shuttle loom shed List general safety methods to be followed in loom shed Discuss the importance of healthy environment in the workplace Handle the tools and waste as per company standard Monitor the workplace for possible health hazards Identify and select right firefighting equipment Describe the evacuation methods during emergency situation 	<ul style="list-style-type: none"> Computer and Projector Beam transportation trolley Beam Cone Package
6.	Comply with industry and organizational requirement Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code TSC/N9004	<ul style="list-style-type: none"> List out the responsibilities of Beam Carrier - Loader Communicate information to the co-worker/ supervisor as per standard protocol Discuss the importance of following the industry standards Demonstrate reporting to the supervisor as per standard procedure Write the GRN slip as per the departmental requirement Discuss the dress code to be followed in loom shed as per industry standard 	<ul style="list-style-type: none"> Computer and Projector Beam transportation trolley Beam Cone Package

7	<p>Employability Skills (30 Hours)</p> <p>Theory Duration (hh:mm) 12:00</p> <p>Practical Duration (hh:mm) 18:00</p>	<ul style="list-style-type: none"> • Discuss the importance of Employability Skills in meeting the job requirements. • Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen. • Show how to practice different environmentally sustainable practices • Discuss 21st century skills. • Display positive attitude, self -motivation, problem solving, time management skills and continuous learning mindset in different situations. • Use appropriate basic English sentences/ phrases while speaking • Demonstrate how to communicate in a well -mannered way with others. • Demonstrate working with others in a team • Show how to conduct oneself appropriately with all genders and PwD • Discuss the significance of reporting sexual harassment issues in time • Discuss the significance of using financial products and services safely and securely. • Explain the importance of managing expenses, income, and savings. • Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws • Show how to operate digital devices and use the associated applications and features, safely and securely • Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely. • Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges. • Differentiate between types of customers • Explain the significance of identifying customer needs and addressing them • Discuss the significance of maintaining hygiene and dressing appropriately. • Create a biodata • Use various sources to search and apply for jobs • Discuss the significance of dressing up neatly and maintaining hygiene for an interview • Discuss how to search and register for apprenticeship opportunities. 	<p>Class room requirements: 25 people seating capacity with a screen and projector</p>
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Total Duration: (hh:mm) 330:00 Theory Duration (hh:mm) 102:00 Practical Duration (hh:mm) 228:00	Unique Equipment Required: Computer and Projector, Beam transportation trolley, Beam/ cone packages <u>Note ; All the above mentioned equipment must be a part running textile weaving unit</u>
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Grand Total Course Duration: 330 Hours, 0 Minutes

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

Trainer Prerequisites for Job role: “Beam Carrier - Loader” mapped to Qualification Pack: “Beam Carrier - Loader/ TSC/Q2601, Version 3.0”

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “ <u>Beam Carrier - Loader/ TSC/Q2601,Version 3.0</u> ”.
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	<ul style="list-style-type: none"> Basic Literacy and Numeracy
4a	Domain Certification	Certified for Job Role: “ <u>Beam Carrier - Loader</u> ” mapped to QP: “ <u>TSC/ Q2601,Version 3.0</u> ”. Minimum accepted score 80%.
4b	Platform Certification	Required that the Trainer is certified for MEP/Q2601 Job Role: “Trainer” with at least 80% score
5	Experience	1 year of Specific sector & 4 years of Trainer experience

Employability Trainer Prerequisites

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Graduate/CITS	Any Discipline			2	Teaching Experience	Prospective ES trainer should:
Current ITI Trainers	Employability Skills Training (3 days full-time course done between 2019-2022)					<ul style="list-style-type: none"> have good communication skills be well versed in English have digital skills have attention to detail be adaptable have willingness to learn
Certified current EEE trainers (155 hours)	from Management SSC (MEPSC)					
Certified Trainer	Qualification Pack: Trainer (MEP/Q0102)					

ASSESSMENT CRITERIA

Job Role: Beam Carrier - Loader
Qualification Pack: TSC/Q2601, V3.0
Sector Skill Council: Textile Sector Skill Council

Assessment Guidelines:

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 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 criterion.
5. To pass the Qualification Pack, every trainee should score a minimum of 50%
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

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out of	Marks Allocation		
				Theroy	Skills Practical	Viva
1. TSC/ N2601 (Taking charge of shift and handing over the shift to Beam Carrier –Loader)	PC1. come at least 10 - 15 minutes earlier to the work spot	100	25	0	20	5
	PC2. collect instructions from the higher authority regarding the works to be carried out for the day, (with order of preference), because load man is hired only for general shift (day shift)		25	10	10	5
	PC3. ensure that all the tasks given for the day by his/her superiors are completed, as instructed		25	10	10	5
	PC4. report to his/her shift superior about the status of the tasks given for the day and should leave the department, only after getting concurrence for the same from his/her superiors		25	10	10	5
	Total		100	30	50	20
		Weightage %	100%	30%	50%	20%
2. TSC/ N2602 (Carrying beams, loading and unloading materials from the vehicles)	PC1. check with the higher authority whether the materials pertain to the required work or not	300	8	4	4	0
	PC2. check whether tarpai is properly tied and the materials are properly covered		8	0	6	2
	PC3. After the vehicle comes to the					

	loading points, and while unloading the materials, ensure that one higher authority and one security are present.	50	8	0	4	4
	PC4. avoid use of any hook		12	4	4	4
	PC5. Check the condition of the packages. if any of the packages are opened or damaged, the same should be unloaded, only after the approval of the higher authority		12	6	6	0
	PC6. Unload the cone / cheese bags/ boxes and store the same at the place earmarked for the same.		8	4	4	0
	PC7. Ensure that the markings on the bags/boxes are readable. accordingly, the said bags/boxes should be stacked		8	4	4	0
	PC8. unload the empty beams from the vehicle, without damaging the same		8	0	6	2
	PC9. store the unloaded empty beams at the reserve place		8	0	6	2
	PC10. ensure the safety methods are adopted accordingly so that no damage is caused to people or material, whether it is manual unloading with or without proper loading point or unloading using forklift, chain block, electrical hoist or any other equipment,.		12	6	6	0
	PC11. Check the condition of the empty beams, before bringing them to the sizing machine and handing over the same to the sizer.		8	4	4	0
	PC12. peel off the old beam tickets from the empty beams		8	2	6	0
	PC13. clean the empty beams thoroughly, so that no stain or rust is there, before they are brought to the sizing machine and handed over to the sizer		8	2	4	2
	PC14. paste fresh beam tickets after the sized beams are unloaded from the sizing machine, as per the advice of the higher authority		8	2	4	2
	PC15. properly wrap the sized beams as per the advice of the higher authority so that no warp sheet is exposed outside		12	6	6	0
	PC16. store the sized beams in the place, earmarked		8	2	6	0
	PC17. store the sized beams in such a way that there is no damage and they are easily traceable		8	2	6	0
	PC18. carry the sized beams to the					

	loom sheds as per the advice of the higher authority, using beam trolleys		8	2	6	0
	PC19. Ensure that there is no damage entertained while carrying to the loom shed higher authority. safely hand over of the sized beams after storing them at the place, as advised by the loom shed authority		8	4	4	0
	PC20. hand over the GRN slip to the higher authority in the sizing department		8	4	4	0
	PC21. Get the list of the materials (from the higher authority) to be loaded in the vehicle.		8	4	4	0
	PC22. Check whether tarpai is there and whether the same is in good condition in the vehicle, in which the materials need to be loaded.		8	4	4	0
	PC23. Check the condition of the "body" of the vehicle. If it is in bad condition, no materials should be loaded in the said vehicle.		8	4	4	0
	PC24. Check that the "body" of the said vehicle is clean. If necessary, cleaning has to be done. some floor covers should be spread to protect the materials from stain		8	3	5	0
	PC25. check the availability of the materials to be loaded , as per the list given by the higher authority		8	3	5	0
	PC26. Take the materials from the stacked place safely and without damaging the other materials, kept for other use.		8	3	5	0
	PC27. check that loading takes place in the presence of one higher authority and one security		8	4	4	0
	PC28. ensure that all the materials are loaded without damaging the packages		8	2	6	0
	PC29. keep the hands clean during material handling		8	2	6	0
	PC30. work as a team while carrying out the works		8	2	6	0
	PC31. maintain clean habits (without drinking , without smoking etc.) while being on duty		8	0	4	4
	PC32. ensure that the loading point is free from other hazards		8	3	5	0
	PC33. ensure that the trolleys move freely without any obstruction, by cleaning the fluff in the wheels or by changing the worn out/ damaged		8	2	4	2

	wheels					
	PC34. Ensure that the weighing scales work properly. for any deviation should bring the same to the knowledge of the higher authorities		8	0	8	0
	PC35. ensure proper functioning of “ chain block” “ fork lift” “ hoist” etc. for any deviation, should bring the same to the knowledge of the higher authorities		12	0	12	0
			300	94	182	24
	Total	Weightage %	100%	31%	61%	8%
3.TSC/N 9001 (Maintain work area, tools and machines)	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way		4	2	1	1
	PC2. use correct lifting and handling procedures		4	2	1	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	1	2	1
	PC6. carry out running maintenance within agreed schedules		4	2	1	1
	PC7. carry out maintenance and/or cleaning within one's responsibility		4	2	1	1
	PC8. report unsafe equipment and other dangerous occurrences		4	2	1	1
	PC9. ensure that the correct machine guards are in place		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 location		4	2	1	1
	PC13. store cleaning equipment safely after use		3	1	1	1
	PC14. carry out cleaning according to schedules and limits of responsibility		4	2	1	1
			50	21	15	14
	Total	Weightage %		42%	30%	28%

4. TSC/N 9002 (Working in a team)	PC1. be accountable to the own role in whole process	50	5	1	3	1
	PC2. perform all roles with full responsibility		4	1	2	1
	PC3. be effective and efficient at workplace		4	2	1	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	1	2	1
	PC9. give due importance to others' point of view		4	1	1	2
	PC10. avoid conflicting situations		4	2	1	1
	PC11. develop new ideas for work procedures		4	2	1	1
	PC12. improve upon the existing techniques to increase process efficiency		4	2	1	1
			50	17	17	16
	Total	Weightage %	100%	34%	34%	32%
5. TSC/N 9003 (Maintain health, safety and security at workplace)	PC1. Comply with health and safety related instructions applicable to the workplace	100	5	2	2	1
	PC2. Use and maintain personal protective equipment as per protocol		5	2	2	1
	PC3. Carry out own activities in line with approved guidelines and procedures		4	1	2	1
	PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants		4	1	2	1
	PC5. Follow environment management system related procedures		4	1	2	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	1	2	1
	PC8. Store materials and equipment in line with		4	2	1	1

	manufacturer's and organizational requirements					
	PC9. Safely handle and move waste and debris		4	2	1	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 perceived risks		4	0	2	2
	PC12. Monitor the workplace and work processes for potential risks and threats		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	2	1	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	1	2	1
	PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry		4	1	2	1
	PC20. recognize other possible security issues existing in the workplace		4	1	2	1
	PC21. recognize different measures to curb the hazards		4	1	2	1
	PC22. communicate the safety plan to everyone		4	1	2	1
	PC23. attach disciplinary rules with the implementation		4	1	2	1
			100	34	43	23
	Total	Weightage %	100%	34%	43%	23%
6. TSC/ N9004 (Comply with industry and organizational requirement)	PC1. perform own duties effectively		4	2	1	1
	PC2. take responsibility for own actions		4	2	1	1
	PC3. be accountable towards the job role and assigned duties		4	1	2	1
	PC4. take initiative and innovate the existing methods		3	1	1	1

	PC5. focus on self-learning and improvement		4	2	1	1
	PC6. co-ordinate with all the team members and colleagues		4	2	1	1
	PC7. communicate politely		4	1	1	2
	PC8. avoid conflicts and miscommunication		4	2	1	1
	PC9. know the organizational standards		4	1	2	1
	PC10. implement them in your performance		4	2	1	1
	PC11. motivate others to follow them		3	1	1	1
	PC12. know the industry standards		4	1	3	0
	PC13. align them with organization standards		4	1	2	1
			50	19	18	13
	Total	Weightage %	100%	38%	36%	26%

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation		
				Theory Marks	Practical Marks	Viva Marks
7. DGT/VSQ/ N0101 – Employability Skills	Introduction to Employability Skills			1	1	-
	1. understand the significance of employability skills in meeting the job requirements					
	Constitutional values – Citizenship			1	1	-
	2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices.					
	Becoming a Professional in the 21st Century			1	3	-
	3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.					
	Basic English Skills			2	3	-
	4. speak with others using some basic English phrases or sentences					
	Communication Skills			1	1	-
	5. follow good manners while communicating with others					
	6. work with others in a team					
	Diversity & Inclusion			1	1	-
	7. communicate and behave appropriately with all genders and PwD					
	8. report any issues related to sexual harassment					
	Financial and Legal Literacy			3	4	-
	9. use various financial products and services safely and securely					
	10. calculate income, expenses, savings etc.					
	11. approach the concerned authorities for any exploitation as per legal rights and laws					

	Essential Digital Skills			4	6	-
	12. operate digital devices and use its features and applications securely and safely					
	13. use internet and social media platforms securely and safely					
	Entrepreneurship			3	5	-
	14. identify and assess opportunities for potential business					
	15. identify sources for arranging money and associated financial and legal challenges					
	Customer Service			2	2	-
	16. identify different types of customers					
	17. identify customer needs and address them appropriately.					
	18. follow appropriate hygiene and grooming standards.					
	Getting ready for apprenticeship & Jobs			1	3	-
	19. create a basic biodata					
	20. search for suitable jobs and apply					
	21. identify and register apprenticeship opportunities as per requirement					
	NOS Total		50	20	30	-
	Grand Total		700	235	355	110



Textile Sector Skill Council

15th Floor, Nirmal Tower, Barakhamba Road, New Delhi-110 001