

Model Curriculum

Assistant Cotton Grader (Ginning)

SECTOR : TEXTILE
SUB-SECTOR : SPINNING - TEXTILES
OCCUPATION : GINNING
REF ID : TSC/Q0902, Version 3.0
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: 'ASSISTANT COTTON GRADER (Ginning)' QP No. TSC/Q0902 NSQF Level 2

Date of Issuance:

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Valid up to:

! \$@# ' ^&*

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

(Dr. Swapna Mishra)

Director (C&T)

(Textile Sector Skill Council)

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ASSISTANT COTTON GRADER (Ginning)

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of an “Assistant Cotton Grader (Ginning)”, in the “Textile & Handloom” Sector and aims at building the following key competencies for the learner.

Program Name	Assistant Cotton Grader (Ginning)		
Qualification Pack Name & Reference ID.	Assistant Cotton Grader (Ginning) TSC/Q0902, version 3.0		
Version No.	3.0	Version Update Date	31.03.2022
Pre-requisites to Training	Ability to read and write		
Training Outcomes	After completing this programme, participants will be able to: <ul style="list-style-type: none"> • Carry out cotton grading for ginning process • Maintain work area, tools and machines • Work in a team • Maintain health, safety and security at work place • Comprehend industrial and organizational requirements and comply with them 		

This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Assistant Cotton Grader (Ginning)” Qualification Pack issued by “TSC: Textile Sector Skill Council”

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1.	Carry out cotton grading for ginning process Theory Duration (hh:mm) 60:00 Practical Duration (hh:mm) 150:00 Corresponding NOS Code TSC/N0904	<ul style="list-style-type: none"> Select kapas trucks to test for standard quality parameters for ginning Identify different varieties of cotton received for ginning Use test equipment to check various parameters of cotton such as staple length, colour, and denier Record or report results according to workplace procedures Identify different types of trash in the received cotton bale Evaluate trash condition and contamination of cotton modules Identify key cotton features that can be varied through ginning process such as fiber length, strength, and elongation Discuss the cotton test results with ginning fitter for processing settings Check the various parameters of lint after ginning process Discuss the lint report with Fitter for necessary change in the speed setting if required Evaluate different types of Indian cotton grades as per the mill standards 	1. common for every batch: poster/video visuals for work method 2. Class room requirements: a batch of 25 people seating capacity with a screen and projector 500kgs of cotton 3 units of Baer sorter 3 units of grading table with adequate lighting
2.	Maintain work area, tools and machines Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code TSC/N9002	<ul style="list-style-type: none"> Understand the importance of housekeeping Identify unique features of basic hand tools Understand the importance of handling equipments Perform maintenance activities for handling equipments 	1. common for every batch: poster/video visuals for work method 2. Class room requirements: a batch of 25 people seating capacity with a screen and projector
3.	Working in a team Theory Duration (hh:mm) 05:00 Practical Duration	<ul style="list-style-type: none"> Understand the importance team work Understand the basic requirements of team working 	Class room requirements: a batch of 25 people seating capacity with a screen and projector

	(hh:mm) 10:00 Corresponding NOS Code TSC/N9002		
4.	Maintain health, safety and security at work place Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 30:00 Corresponding NOS Code TSC/N 9003	<ul style="list-style-type: none"> Follow general safety Rules Maintain healthy environment in the work place Handle the materials and waste as per company standard Monitor the work place for possible health hazards Identify and select right firefighting equipment Perform good practice on first aid, firefighting etc. 	<p>1. <u>common for every batch:</u> poster/video visuals for work method</p> <p>2. <u>Class room requirements:</u> a batch of 25 people seating capacity with a screen and projector</p>
5.	Comply with industry and organizational requirements Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code TSC/N9004	<ul style="list-style-type: none"> Understand about organizational and industry standards Understand the requirements for self-development Follow organizational and industry standards effectively 	Computer with access to Internet

6	<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 Theory Duration 102:00 Practical Duration 228:00	Unique Equipment Required: Laptop, white board, marker, projector, first aid kit, 500 Kg Kapas, Baer sorter
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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: “Assistant Cotton Grader (Ginning)” mapped to Qualification Pack: "TSC/Q0902, V 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 “Assistant Cotton Grader (Ginning), TSC/Q0902” Version 3.0”.
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	Basic Literacy and Numeracy
4a	Domain Certification	Certified for Job Role: Assistant Cotton Grader (Ginning)” mapped to QP: “Assistant Cotton Grader (Ginning), TSC/Q0902” Version 3.0 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: <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
Current ITI Trainers	Employability Skills Training (3 days full-time course done between 2019-2022)					
Certified current EEE trainers (155 hours)	from Management SSC (MEPSC)					
Certified Trainer	Qualification Pack: Trainer (MEP/Q0102)					

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Assistant Cotton Grader (Ginning)
Qualification Pack	TSC/Q0902, V 3.0
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 SSC.
3	Assessments will be conducted for all compulsory NOS, and where applicable, on the selected elective/ Option NOS/ set of NOS
4	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)
5	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria.
6	To pass the qualification pack, every trainee should score a minimum of 50%.
7	In case of unsuccessful completion, the trainee may seek reassessment on the Qualification pack

	Compulsory NOS			Marks Allocation	
Assessable Outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical
TSC/N0904 Carry out cotton grading for ginning process	PC1. select kapas trucks for quality test for standard parameters for ginning	200	20	8	12
	PC2. identify different varieties of cotton received for ginning		20	8	12
	PC3. use test equipment to check various parameters of cotton like staple length, Colour, Denier etc.		20	6	14
	PC4. record or report results according to workplace procedures		20	6	14
	PC5. identify different types of trash in the received cotton bale		20	6	14
	PC6. Evaluate trash condition and contamination of cotton modules		20	6	14
	PC7. identify key cotton features that can be varied through ginning process like fiber length, Strength, Elongation etc		20	6	14
	PC8. Discuss the cotton test results with Ginning fitter for processing settings		20	6	14
	PC9. identify the effect of temperature and speed settings on fibre length, moisture content and trash removal effectiveness		10	2	8
	PC10. check the various parameters of lint after ginning process		10	2	8
	PC11. Discuss the lint report with Fitter for necessary change in the speed setting if required		10	2	8
	PC12. evaluate different types of Indian cotton grades as per the mill standards		10	2	8
		Total	200	60	140
2.TSC/N9001	PC1. handle materials, machinery, equipment and tools with care and use them in the correct way	50	4	1	3

Assessable Outcomes	Compulsory NOS			Marks Allocation	
	Assessment Criteria for outcomes	Total Marks	Out of	Theroy	Skills Practical
(Maintain work area, tools and machines)	PC2. use correct lifting and handling procedures		4	1	3
	PC3. use materials to minimize waste		3	1	2
	PC4. maintain a clean and hazard free working area		3	1	2
	PC5. maintain tools and equipment		4	2	2
	PC6. carry out running maintenance within agreed schedules		4	1	3
	PC7. carry out maintenance and/or cleaning within one's responsibility		4	1	3
	PC8. report unsafe equipment and other dangerous occurrences		4	1	3
	PC9. ensure that the correct machine guards are in place		3	1	2
	PC10. work in a comfortable position with the correct posture		3	1	2
	PC11. use cleaning equipment and methods appropriate for the work to be carried out		3	1	2
	PC12. dispose of waste safely in the designated location		4	1	3
	PC13. store cleaning equipment safely after use		3	1	2
	PC14. carry out cleaning according to schedules and limits of responsibility		4	1	3
	Total		50	15	35
3.TSC/N9002 (Working in a team)	PC1. be accountable to the own role in whole process	50	4	2	2
	PC2. perform all roles with full responsibility		4	2	2
	PC3. be effective and efficient at workplace		4	1	3
	PC4. properly communicate about company policies		4	1	3
	PC5. report all problems faced during the process		4	1	3
	PC6. talk politely with other team members and colleagues		4	1	3
	PC7. submit daily report of own performance		5	2	3

Compulsory NOS				Marks Allocation	
Assessable Outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theroy	Skills Practical
	PC8. adjust in different work situations		4	1	3
	PC9. give due importance to others' point of view		4	2	2
	PC10. avoid conflicting situations		4	2	2
	PC11. develop new ideas for work procedures		5	1	4
	PC12. improve upon the existing techniques to increase process efficiency		4	1	3
	Total		50	17	33
4.TSC/N9003 (Maintain health, safety and security at work place)	PC1. comply with health and safety related instructions applicable to the workplace .	100	5	2	3
	PC2. use and maintain personal protective equipment such as "ear plug", " nose mask ", " head cap" etc., as per protocol		5	2	3
	PC3. carry out own activities in line with approved guidelines and procedures		4	2	2
	PC4. maintain a healthy lifestyle and guard against dependency on intoxicants		4	2	2
	PC5. follow environment management system related procedures		4	2	2
	PC6. identify and correct (if possible) malfunctions in machinery and equipment		5	2	3
	PC7. report any service malfunctions that cannot be rectified		4	2	2
	PC8. store materials and equipment in line with organisational requirements		4	1	3
	PC9. safely handle and remove waste		4	1	3
	PC10. minimize health and safety risks to self and others due to own actions		5	2	3
	PC11. seek clarifications, from supervisors or other authorized personnel in case of perceived risks		4	2	2
	PC12. monitor the workplace and work processes for potential risks and threat		5	2	3

Assessable Outcomes	Compulsory NOS			Marks Allocation	
	Assessment Criteria for outcomes	Total Marks	Out of	Theroy	Skills Practical
	PC13. carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned		5	2	3
	PC14. report hazards and potential risks/ threats to supervisors or other authorized personnel		4	1	3
	PC15. participate in mock drills/ evacuation procedures organized at the workplace		4	2	2
	PC16. undertake first aid, fire-fighting and emergency response training, if asked to do so		5	2	3
	PC17. take action based on instructions in the event of fire, emergencies or accidents		5	2	3
	PC18. follow organisation procedures for shutdown and evacuation when required		4	2	2
	PC19. identify different kinds of possible hazards (environmental, personal, ergonomic, chemical) of the industry		4	2	2
	PC20. recognise other possible security issues existing in the workplace		4	2	2
	PC21. recognise different measures to curb the hazards		4	2	2
	PC22. communicate the safety plan to everyone		4	2	2
	PC23. attach disciplinary rules with the implementation		4	2	2
	Total		100	43	57
5.TSC/N9004 (Comply with industry and organizational requirements)	PC1. perform own duties effectively	50	4	1	3
	PC2. take responsibility for own actions		4	1	3
	PC3. be accountable towards the job role and assigned duties		4	2	2
	PC4. take initiative and innovate the existing methods		3	1	1
	PC5. focus on self-learning and improvement		4	1	3
	PC6. co-ordinate with all the team members and colleagues		4	1	3
	PC7. communicate politely		4	1	3

Assessable Outcomes	Compulsory NOS			Marks Allocation	
	Assessment Criteria for outcomes	Total Marks	Out of	Theroy	Skills Practical
	PC8. avoid conflicts and miscommunication		4	1	3
	PC9. know the organisational standards		4	2	2
	PC10. implement them in your performance		4	1	3
	PC11. motivate others to follow them		3	1	2
	PC12. know the industry standards		4	3	1
	PC13. align them with organisation standards		4	2	2
	Total		50	18	32

National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks	Out Of	Marks Allocation	
				Theory Marks	Practical Marks
6. 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		500	173	327



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