



COTTON PICKING

Competency Standards

National Vocational
Certificate Level 1

Version 1 - January 2014

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Competency Standards – Cotton Picking

Module-1: Preparation for Cotton Picking

Overview: These competency standards will ensure that the trainees will have the fundamental knowledge and skills to be competent in pre-picking preparation

Competency Unit	Performance Criteria	Knowledge Criteria
A-1: Wear Proper Dress	P.1: Demonstrate and explain protective clothing for cotton picking and appropriate regional differences.	K.1: Explain the actual advantages of wearing scarf, gloves, mask, long gown and use of cotton bags. K.2: Explain the life hazards due to use of chemicals. K3: Convincing the trainees about the probable damage that can happen to quality of crop and picked cotton due to inappropriate dressing.
A-2: Select ready to pick boll	P.1: Classify the cotton bolls, plants and plots having diseased or damaged bolls using industry standard classifications.. P.2: Identify and pick good quality cotton from bolls without damaging the plant as well as immature (un-ripened) bolls. P.3: Describe or explain how losses can be minimised by using the weather forecast	K.1: Explain the process of calculating the percentage of opened cotton bolls using the inner and outer sides of the field. Learn of the inner and outer sides of the field to check percentage of opened cotton bolls. K2: Explain the fully matured (mostly fully opened: around 60 %) cotton bolls. K3: Give knowledge to Explain potential damage to the quality of cotton due to climate variability.
A-3: Start picking in rows	P.1: Demonstrate the systematic row wise way of walk and picking sequence of cotton pickers so there is no damage of immature bolls of plant. P.2: Explain the disadvantages or losses that could	K.1: Explain the benefits and better results of doing picking in rows. K.2: Explain the benefits of proper planning of start of cotton picking keeping the nature of field in view.

	<p>occur for not following the row wise sequence while picking seed cotton.</p> <p>P.3: Arrange the pickers in rows under the supervision of supervisor.</p>	
A-4: Supervise the cotton pickers	<p>P.1: Inspect / manage the cotton pickers regarding the required way of picking.</p> <p>P.2: Arrange the pickers in rows under the supervision of supervisor</p> <p>P.3: Demonstrate ways to monitor whether the field workers' follow the correct procedure or not.</p>	K.1: Counselling the pickers about complete knowledge and information required for preparation of cotton picking.

Module-2: Cotton picking from ready to pick boll

Overview: These competency standards will ensure that the trainee will have the basic knowledge, skill and competency to be able to identify diseased and healthy cotton and to be able to separate them during picking

Competency Unit	Performance Criteria	Knowledge Criteria
B-1: Pick the complete/matured cotton from bolls	<p>P.1: Inspect cotton plant along with its important parts according to industry standard classifications.</p> <p>P.2: Differentiate between healthy and diseased cotton</p>	<p>K.1: Explain the different diseases or identification of the probable damages that can attack the cotton plant in general and cotton boll in particular.</p> <p>K.2: Get skilled of cotton picking from bottom to top.</p> <p>K.3: Explain why cotton picking is to be avoided just after rain fall.</p>
B-2: Separate the diseased and contaminated cotton	<p>P.1: Evaluate the standard reasons and advantages of separating the diseased cotton.</p> <p>P.2: Demonstrate methods industry standard processes of separation of foreign material during picking rather than after picking.</p>	<p>K.1: Explain various forms of contamination (addition of leaves, stems, shell etc).</p>
B-3: Place picked cotton appropriately during picking	<p>P.1: Demonstrate the placement of cotton on appropriate sheet instead of dumping cotton during picking according to industry standards.</p> <p>P.2: Explain the probable damages of dumping the cotton during picking.</p>	<p>K.1: Learning of the benefits of adequate placing of the cotton during picking.</p>

<p>B-4: Fill the bag appropriately LU-4 Minimise wastage in cotton picking</p>	<p>P.1: Minimize wastage in cotton picking. P.1 Fill the bag appropriately by separating diseased material P2 Fill the bag according to the capacity</p>	<p>K.1: Have skill of making the cotton filling bags filled with cotton appropriately according to the capacity of bags. K.2: Get skill of the advantages of filling the bags appropriately.</p>
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Module-3: Dry the picked cotton

Overview: These competency standards will ensure that the trainees will have the required knowledge, skill and competency in post-picking precautions and techniques.

Competency Unit	Performance Criteria	Knowledge Criteria
C-1: Select a clean and dry place to unload picked cotton	<p>P1 Identify a clean and dry place for storing the cotton according to standard characteristics of a clean, dry place</p> <p>P.2: Establish precautions to avoid exposure of children and thus to minimize contaminations.</p>	<p>K.1: Explain the importance of neat and dry place for storing (or stacking or heaping) picked cotton.</p> <p>K 2: avoid putting the picked cotton under shadows of trees to further avoid the feathers, bits of birds.</p>
C-2: Prepare unload site	<p>P.1: Gather necessary measures for the selection of dry place.</p> <p>P-2 Place cotton sheet on selected dry place</p> <p>P.3: Identify the probable ways and means of mixing of foreign elements in the seed cotton.</p> <p>P-4 Establish procedures to control contamination</p>	<p>K.1: Apprehend the importance of the specification of the cotton sheet.</p> <p>K.2: Publicise the measures for appropriate place to put the cotton sheet.</p>
C-3: Unload bags on cotton sheet	<p>P.1: Locate the use of cotton sheet at dry place.</p> <p>P.2: Investigate cotton bags or opened-vehicle for transportation to avoid contamination.</p> <p>P.3 Unload bags according to standard procedures</p>	<p>K.1: Identify the loaded bags and cotton sheet.</p> <p>K.2: Know the procedure of unloading the bags on cotton sheet.</p>

<p>C-4: Protect cotton from rain and sand storm etc.</p>	<p>P.1: Explain the use of the weather forecast to minimize the of damage from rain or sand storm etc</p> <p>P2 Demonstrate appropriate methods of protecting the crop from bad weather</p>	<p>K.1: Describe the probable damages of cotton by rain and sand storm.</p> <p>K.2: Describe the various methods for protecting cotton from rain and sand storm.</p> <p>K.3: Explain the usefulness of protected cotton.</p>
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Module-4: Clean picked cotton

Overview: These competency standards will ensure that the trainees will have the knowledge, skill and competency to clean cotton after picking is completed.

Competency Unit	Performance Criteria	Knowledge Criteria
D-1: Detect non fiber foreign matter	P.1: Select the appropriate time for picking i.e. during sun shine after 10 am, to avoid non fibre and other contents. P.2 Identify the presence of non-fibre elements. P.3: Describe the drying of cotton as per standards.	K.1: Explain the harms of non fiber contents in cotton. K2: Describe common types of non-fibre contents.
D-2: Separate non-fiber foreign matter	P.1: Identify and separate the non-fibre foreign matter in cotton P.2: Ensure the disposal of picked non fibre material according to standard industry procedures so as to avoid remixing.	K.1: Explain various methods for removing the different types of non-fibre contents i.e. toffee rappers, shoppers, jutes link, (Orange, banana shell/chalky). K.2: Identify the probable harms of adulteration of non-fibre foreign contents in the cotton.

List of Machinery and equipment

S. No.	Description	Quantity
01	Cotton sheet	30
02	Cotton bag	30
03	White board	01
04	Student chair & table	30
05	Complete Multi-media system	01
06	Teacher chair	01
07	Rostrum	01
08	Moisture checking device	03
09	First aid box	01
10	Hand Gloves	30
11	Scarf	30
12	Gowns	30
13	Chart showing various parts of cotton plants	05
14	Picture of appropriate filled bag	05
15	Pictures of dirty cotton and white cotton	05

16	Charts for demo of proper place and foreign elements	04
17	Samples of cotton sheet	10
18	Pictures of dry place	05
19	Demo for putting cotton sheet on Chart	02
20	Pictures of loaded cotton bags	05
21	Pictures of cotton sheet	05
22	Demo charts of unloading	05
23	Picture of affected cotton	05
24	Demo charts of safety measures charts	05
25	Picture of non fibre matters	05

List of consumable supplies

1. Pens
2. Board markers
3. Workbooks
4. Handouts
5. Charts of proper dress & foreign elements
6. Pictures of diseased cotton & white cotton
7. Pictorial expressions of various cotton fields
8. Material used for demonstration.
9. Skin care products for cotton pickers
10. Specimen of cotton bags
11. Samples of yellowish cotton
12. Samples of healthy cotton
13. Picture of cotton field with well groomed crop and damaged crop
14. Sample of different varieties of cotton

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