

CURRICULUM

Course Name: Hand Held Kapas Plucker Machine Operator

Course Code: TC FIBER 01

SECTOR: TEXTILE
SUB-SECTOR: Other (Fibers)
OCCUPATION: Harvesting Machine Operator
REFERENCE ID: TEXTILES COMMITTEE (RSA)/ TC FIBER 01
ALIGNED TO: NCO-2015/8341.0201
NSQF level: 3

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Hand Held Kapas Plucker Machine Operator”, in the “textile” sector / industry and aims at building the following key competencies amongst the learner.

Hand Held Kapas Plucker Machine Operator

| | | |
|----|---------------------------|--|
| 1 | Name of the training | Hand Held Kapas Plucker Machine Operator |
| 2 | Qualification | Able to read and write |
| 3. | Age Limit | Minimum 18 years |
| 4 | No. of trainees per batch | 30 (Maximum) |
| 5 | Duration of Training | 300 Hours |
| 6 | Nature of Training | Hands-on Practical training |

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SYLLABUS

1. Knowledge of Cotton Fiber, its Varieties and Market

1.1 Varieties of Cotton fiber, Basic quality norms, colour appearance of cotton fibers and cotton Industry

2. Cultivation and Harvesting of Cotton Fiber

2.1 Study of land, water, temperature and climatic conditions for the cotton crop.

2.2 Preparation of seed for cotton and sowing

2.3 Application of fertilizers for crop growth

2.4 Harvesting of crop at right time.

3. Application of Hand Held Kapas Plucker Machine

3.1 Attachments to the machine

3.2 Operation of the machine

4. Maintenance of Hand Held Kapas Plucker Machine

4.1 Guidelines for machine maintenance

5. Quality Aspects

5.1 Steps to improve quality of fiber

6. Soft Skills and Safety Precautions

6.1 Importance of protective equipments

6.2 Importance of Good behavior

6.3 Importance of Hygiene

DETAILED SYLLABUS

1.1 Knowledge of Cotton Fiber , its Varieties and Market

Knowledge of fibers, classification of fiber, varieties of cotton fiber and their qualities, colour appearance, process flow of Cotton industry, market scenario of cotton industries, price of cotton.

2.1 Study of land, water, temperature and climatic conditions for the cotton crop

Detail study of land, water, temperature required for cotton crop cultivation, study of climatic conditions in respect to proper growth of cotton crop.

2.2 Preparation of seed for cotton and sowing

Learn the steps to prepare cotton seed, Selection of cotton seed can give high yield and good quality, preparation of land for sowing of cotton seed,

2.3 Application of fertilizers for crop growth

Learn the steps to use fertilizers, use of pest control and removal of weed for crop growth, identify the parts of the crop where pest attack.

2.4 Harvesting of crop at right time

Learn the harvesting the crop at right time and regular intervals, fully matured cotton balls.

3.1 Attachments to the machine

Learn the proper steps for attachments of Hand Held Kapas Plucker Machine like Battery, Kapas collection yellow bag of cotton

3.2 Operation of the machine

Learn the practical demonstration of the machine in the field, holding of the machine, plucking of cotton.

4.1 Guidelines for machine maintenance

Understand the importance of attachments all accessories to the machine, correct procedure of machine handling, correct directions of battery use, importance of contamination free container, cleaning schedule.

5.1 Steps to improve quality of fiber

Understand the main purpose of machine applications, maturity of cotton, varieties of cotton, colour of cotton and growth stages of cotton, contamination in cotton, importance of machine handling to improve quality of fiber.

6.1 Importance of protective equipments

Learn to use protective equipments such as ear plugs, masks, hand gloves, shoes etc., proper cloths, use of fire safety equipment

6.2 Importance of Good behavior

Learn courteously talking, respecting the women workers, courteous in communication

6.3 Importance of Hygiene

Learn the importance of clean surroundings, importance of washing hands, bad effects of chewing tobacco inside the organisation.

| Title of component and Identification code/NOSs/Learning outcomes | Estimated size (learning hours) | | Total |
|--|------------------------------------|------------------|------------|
| | Theory | Practical | |
| TEXTILES COMMITTEE (RSA) / N 01 Introduction to Cotton fibers, Varieties of Cotton fibers, Basic quality norms, colour appearance of cotton fibers and cotton Industry etc. | 12 | 28 | 40 |
| TEXTILES COMMITTEE (RSA) / N 02 Introduction to Cultivation and Harvesting of cotton | 12 | 28 | 40 |
| TEXTILES COMMITTEE (RSA) / N 03 Operating of Hand Held Kapas Plucker Machine | 33 | 77 | 110 |
| TEXTILES COMMITTEE (RSA) / N 04 Maintaining of Hand Held Kapas Plucker Machine | 12 | 28 | 40 |
| TEXTILES COMMITTEE (RSA) / N 05 Quality Aspects of Kapas Plucking by machine, grading of cotton fibers and types of contamination | 12 | 28 | 40 |
| TEXTILES COMMITTEE (RSA) / N 06 Soft Skills to Improve Safety, Behaviour, Hygiene, Attitude, etc., safety precautions. | 9 | 21 | 30 |
| sub total | 90 (30%) | 210 (70%) | 300 |