

CARRY OUT AGRICULTURAL POST HARVEST PROCESSES

UNIT CODE: 0716 551 22A

TVET CDACC CODE: ENG/OS/AGR/CR/02/6/MA

UNIT DESCRIPTION

This unit covers the competencies required to perform produce post-harvest activities. Competencies include; transporting farm produce, sorting, cleaning and grading of farm products, drying of farm produce, processing of farm produce final products, packaging of farm produce, storing and material handling activities, managing agricultural waste and by-products.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function.	These are assessable statements which specify the required level of performance for each of the elements. <i>(Bold and italicised terms are elaborated in the Range)</i>
1. Transport farm produce	1.1 Farm produce are transported in line with required timelines 1.2 Farm produce are transport in adherence to the EHS 1.3 Means of produce transport is established based on the nature of the produce 1.4 Farm produce are transported in line with the relevant <i>Government regulations</i>
2. Sort, clean and grade farm produce	2.1 Sorting, cleaning and grading is performed in line with the standard operating procedures 2.2 Sorting, cleaning and grading of farm produce is performed in line required <i>market standard</i> 2.3 Sorting, cleaning and grading of farm produce is performed in adherence of good agricultural practice 2.4 Sorting, cleaning and grading of farm produce is performed EHS

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	2.5 Sorting, cleaning and grading machines are identified in line with the produce
3. Dry and cool farm produce	3.1 Farm produce are prepared for drying or cooling in line with their types and the standard operating procedures 3.2 Drying or cooling structures and equipment are established as per the produce to be dried 3.3 Farm produce are dried or cooled as per the types and the standard operating procedure 3.4 Farm produce are dried or cooling according to the required timelines 3.5 Testing of dried or cooling produce is performed in line with the required standard 3.6 Drying or cooling is done in line with the prevailing weather condition
4. Process farm produce	4.1 Farm produce are prepared for processing in line with their types and the standard operating procedures 4.2 Farm processing equipment's are identified as per the type of the produce 4.3 Farm produce are processed in line with the required timelines 4.4 Farm processing is performed as their type of the produce 4.5 Methods of different farm processing are identified as per the type of the produce

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5. Package farm produce	5.1 Produce are package according to the types 5.2 Packaging methods as determined in line with the farm produce 5.3 Packaging materials are determined in line with the KEBS and good agricultural practice standard 5.4 Packaging machines are established based on the produce to be packaged 5.5 Packaging is performed according to EHS standards
6. Handle farm produce	6.1 Farm produce is handled as per their types and stages of handling 6.2 Farm produce is handled as per the type of packaging process 6.3 Produce is handled as per the type of storage 6.4 Produce is handled in line with the machine to be used
7. Store farm produce	7.1 Produce storage methods are identified as per the type of the produce 7.2 Storage structures are established based on the produce to be stored 7.3 Produce storage handling machines are established base on the storage structures 7.4 Produce storage conditions are identified based on the type of the produce 7.5 Pest control measures in produce storage are established as per the good agricultural practices

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8. Manage agricultural waste and by-product	8.1 <i>Agricultural waste</i> to be managed are classified in line their type 8.2 Disposal methods of agricultural wastes are identified in line with the EHS standards 8.3 Agricultural wastes are recycled according to the good agricultural practice 8.4 Waste utilization methods are identified based on the types of produce processed 8.5 NEMA and Government rules and regulation are adhered to in waste disposal process

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and understanding and range.

1. Critical Aspects of Competency	Assessment requires evidence that the candidate: 1.1 Transported farm produce in adherence to the EHS 1.2 Transported farm produce in line with the relevant Government regulations 1.3 Sorting, cleaning and grading of farm produce is performed EHS 1.4 Dried farm produces as per their types and the standard operating procedure 1.5 Dried farm produces according to the required timelines 1.6 Identified different methods of farm processing as per the type of the produce 1.7 Prepared farm produce for processing in line with their types and the standard operating procedures
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	1.8 Determined packaging materials in line with the KEBS and good agricultural practice standard 1.9 Performed packaging according to EHS standards 1.10 Established storage structures based on the produce to be stored 1.11 Established pest control measures in produce storage as per the good agricultural practices 1.12 Recycled agricultural wastes according to the good agricultural practice 1.13 Adhered to NEMA and Government rules and regulation in waste disposal process
2. Resource Implications	Resources the same as that of workplace are advised to be applied. Including Tractors, lorries, milk coolers, Stores, utilities
3. Methods of Assessment	Competency may be assessed through: 3.1 Observation with the help of check list 3.2 Practical demonstrations 3.3 Oral Questioning
4. Context of Assessment	Competency may be assessed individually in the actual workplace or a simulated work place setting
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.