

**REPUBLIC OF KENYA**

**NATIONAL OCCUPATIONAL STANDARD**

**FOR**

**SHEEP SHEARER**

**LEVEL 3**

**OCUPATIONAL STANDARD CODE: 0811 254 A**

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**FOREWORD**

The provision of quality education and training is fundamental to the Government’s overall strategy for social-economic development. Quality education and training will contribute to the achievement of Kenya’s development blueprint, Vision 2030 and sustainable development goals.

Reforms in the education sector are necessary for the achievement of Kenya Vision 2030 and meeting the provisions of the Constitution of Kenya 2010. These reforms resulted to the formulation of the Policy Framework for Reforming Education and Training (Sessional Paper No.14 of 2012). A key feature of this policy is the radical change in the design and delivery of the TVET training. This policy document requires that training in TVET be competency based, certification be based on demonstration of competence and mode of delivery allows for multiple entry and exit in TVET programs.

This occupational standard will inform the development of the Competency-Based Education and Training (CBET) Sheep Shearing Level 3 curriculum. It will also form the basis for the assessment of an individual for competency certification.

**PREFACE**

Kenya Vision 2030 aims to transform the country into a newly industrializing, middle-income country providing a high-quality life to all its citizens by the year 2030. Kenya intends to create a globally competitive and adaptive human resource base to meet the requirements of a rapidly industrializing economy through life-long education and training. TVET has a responsibility of facilitating the process of inculcating knowledge, skills, and attitudes necessary for catapulting the nation to a globally competitive country, hence the paradigm shift to embrace Competency-Based Education and Training (CBET).

The TVET Act CAP 2I0A and Sessional Paper No. 14 of 2012 on Reforming Education and Training in Kenya, emphasized the need to reform curriculum development, assessment and certification. This called for a shift to CBET to address the mismatch between skills acquired through training and skills needed by the industry as well as increase the global competitiveness of the Kenyan labor force.

I am grateful to the Governing Council Members, TVETA, sector regulators, the industry experts, and subject experts who participated in the development of these standards.

**ACKNOWLEDGMENT**

This Occupational Standard was developed through the combined effort of various stakeholders from private and public organizations. I am thankful to the management of these organizations for allowing their staff to participate in this course. I wish to acknowledge the invaluable contribution of industry players who provided input towards the development of this occupational standard.

I also thank all the individuals and organizations who participated in the validation of this Occupational Standard.

# ABBREVIATIONS AND ACRONYMS

|  |  |  |
| --- | --- | --- |
| LPM | Livestock Production Manual |  |
| PPE | Personal Protective Equipment |  |

TVET Technical, Vocational Education and Training

TVETA Technical and Vocational Education and Training Authority

**KEY TO UNIT CODE**

**Sector / Industry**

**Sub Sector**

**Occupational Area**

**Version Control**

**Unit of Competence Number**

**ISCED level, Programme Orientation and Level of Completion**

xx

x

xxx

x

xx

x

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**OVERVIEW**

Sheep shearing level 3 qualification consists of competencies required by an individual to conduct pre-shearing activities, perform sheep shearing and perform fleece management

The units of competency comprising Sheep Shearing Level 3 qualification include the following core competencies:

**Core Units of Learning**

|  |  |
| --- | --- |
| **Unit Code** | **Unit Title** |
| 0811 251 01 A | Conduct pre-shearing activities |
| 0811 251 02 A | Perform sheep shearing |
| 0811 251 03 A | Perform fleece management |

# CONDUCT PRE-SHEARING ACTIVITIES

**UNIT CODE: 0811 251 01 A**

**UNIT DESCRIPTION**

This unit describes competencies required by a sheep shearer to conduct pre-shearing activities. It involves preparing shearing flock, preparing shearing structures, and preparing shearing tools and equipment.

**ELEMENTS AND PERFORMANCE CRITERIA**

|  |  |
| --- | --- |
| **ELEMENT**  These describe the key outcomes which make up workplace functions | **PERFORMANCE CRITERIA**  These are assessable statements which specify the required level of performance for each of the elements  ***(Bold and italicized terms are elaborated in the range)*** |
| * + - 1. Prepare shearing flock | * 1. Shearing ***flock selection*** is performed as per work requirement   2. Shearing ***flock*** ***sorting*** is conducted as per work procedure   3. Shearing ***flock management*** is conductedas per work schedule |
| * + - 1. Prepare shearing structures | * 1. ***Shearing structures*** are inspected as per work requirement   2. Inspection report is prepared as per work procedure   3. ***Repairs and maintenance*** are supervised as per work requirement   4. Cleaning and sanitation are supervised as per work procedure |
| * + - 1. Prepare shearing tools and equipment | * 1. ***Tools, equipment and materials*** are identified as per work requirement   2. Conditions of tools material and equipment is assessed as per work procedure   3. ***Maintenance of tools******and equipment*** is performed as per manufacturers manual   4. Setting and calibration is conducted as per manufacturers manual |

**RANGE**

This section provides work environment and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

|  |  |
| --- | --- |
| **Variable** | **Range** |
| 1. Flock selectionmay include but not limited to: | * Age * Health * Fiber length |
| 1. Flock management may include but not limited to: | * Housing in a dry shed * Protect from adhering weeds * Protection from rain and fog |
| 1. Flock sorting may include but not limited to: | * Breeds * Merino * Corriedale * Romney marsh * Hampshire down * Suffolk * Dorper * Red Maasai * Black head Persia * Sex * Health status |
| 1. Shearing structures may include but not limited to: | * Shearing sheds * Holding pen * Shearing benches * Wool inspection tables * Wool grading tables * Wool store |
| 1. Repairs and maintenance may include but not limited to: | * Leaking roofs * Broken fences * Broken benches and tables * Worn out floors * Electrical installations |
| 1. Tools, equipment and materials may include but not limited to: | * Tools * Shears * Sharpening stone * Combs * Brush * Clippers * Equipment * Grinder * Electric shear * Electric wool trimmers * PPEs * First aid kit * Wool press * Weighing scale * computer * Materials * Oil * Grease * Wool bags * Antiseptics * Manila ropes * stationery * Hooks * Scabbard |
| 1. Maintenance of tools and equipment | * Sharpening * Cleaning * Greasing * Oiling * Tightening screws, bolts and nuts * Painting |

**REQUIRED KNOWLEDGE AND SKILLS**

This section describes the knowledge and skills required for this unit of competence.

Required knowledge



**Required skills**

The individual needs to demonstrate the following skills:

* Maintenance tools and equipment
* Use of tools and equipment
* Analytical skills
* Interpersonal skills
* Attention to detail
* Team player
* Numeracy
* Communication skills
* Personal integrity and tolerance
* Work ethics and procedures
* Use PPEs

**EVIDENCE GUIDE**

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

|  |  |
| --- | --- |
| 1. Critical aspects of competency | * 1. Conducted shearing flock managementas per work schedule   2. Inspected shearing structures as per work requirement   3. Prepared inspection report as per work procedure   4. Identified tools, equipment and materials as per work requirement   5. Performed maintenance of tools and equipment asper manufacturers manual   6. Conducted setting and calibration as per manufacturers manual |
| 1. Resource implications | The following resources should be provided:   * 1. Appropriately simulated environment where assessment can take place   2. Access to relevant work environment   3. Resources relevant to the proposed activities or tasks |
| 1. Methods of assessment | Competency in this unit may be assessed through:  Examples:   1. Practical assessment 2. Oral assessment 3. Portfolio of evidence 4. Project 5. Case study 6. Third party report 7. Written tests |
| 1. Context of assessment | Competency may be assessed in a:  4.1 Workplace  4.2 Simulated workplace |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the industry sector and workplace job role is recommended. |

# PERFORM SHEEP SHEARING

**UNIT CODE: 0811 251 02 A**

**UNIT DESCRIPTION**

This unit describes the competencies required by a sheep shearer to perform sheep shearing. It involves conducting sheep handling, conducting shearing and post shearing practices.

**ELEMENTS AND PERFORMANCE CRITERIA**

|  |  |
| --- | --- |
| **ELEMENT**  These describe the key outcomes which make up workplace functions | **PERFORMANCE CRITERIA**  These are assessable statements which specify the required level of performance for each of the elements  ***(Bold and italicized terms are elaborated in the range)*** |
| * + - 1. Conduct sheep handling | * 1. Welfare issues in sheep handling   2. Catching of shearing sheep is conducted as per livestock production manual (LPM)   3. Dragging of sheep is performed as per LPM   4. Restraining and positioning of sheep is performed as LPM |
| * + - 1. Conduct shearing | * 1. PPEs are worn as per work requirement   2. ***Shearing***is conducted as per work requirement   3. ***Sheep inspection*** is performed as per work requirements   4. Sheep is released as per LPM   5. Inspection report is prepared as per work requirement |
| * + - 1. Conduct post shearing practices | * 1. Cleaning of shearing structures is conducted as per work procedures   2. ***Maintenance*** of shearing tools and equipment is performed as per work requirement   3. Storing of tools and equipment is performed as per work requirement   4. Waste disposal is performed as per work requirement |

**RANGE**

This section provides work environment and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

|  |  |
| --- | --- |
| **Variable** | **Range** |
| 1. ***Shearing*** may include but not limited to: | * Full body shearing * Eye wigging (face shearing) * Belly shearing * Ringing * Crutching |
| 1. Sheep inspection may include but not limited to: | Inspection for:   * External parasites * Skin diseases * Skin condition * Shearing injuries |
| 1. Maintenance may include but not limited to: | * Sharpening * Cleaning * Greasing * Oiling * Adjustments of screws, bolts and nuts * Painting |
| 1. Personal protective equipment includes but not limited to: | * Overall * Gloves * Safety boots * Googles * Nose masks |

**REQUIRED KNOWLEDGE AND SKILLS**

This section describes the knowledge and skills required for this unit of competence.

**Required knowledge**

* Shearing Tools and equipment
* external parasite identification
* signs of ill health
* common skin conditions
* sheep handling
* sheep behaviour and temperament
* zoonosis
* waste handling and disposal

**Required skills**

* Use of shearing tools and equipment
* Maintenance tools and equipment
* Sheep handling skills
* Shearing skills
* Analytical skills
* Interpersonal skills
* Attention to detail
* Team player
* Numeracy
* Communication skills
* Integrity and tolerance
* Work ethics
* Use PPEs

**EVIDENCE GUIDE**

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

|  |  |
| --- | --- |
| 1. Critical aspects of competency | * 1. Donned PPEs as per work requirement   2. Conducted catching of shearing sheep as per livestock production manual (LPM)   3. Performed dragging of sheep as per LPM   4. Performed restraining and positioning of sheep as per LPM   5. Conducted shearingas per work requirement   6. Performed sheep inspection as per work requirements   7. Released sheep as per LPM   8. Prepared Inspection report as per work requirement   9. Conducted cleaning of shearing structures as per work procedures   10. Performed maintenance of shearing tools and equipment as per work requirement   11. Performed waste disposal as per work requirement |
| 1. Resource implications | The following resources should be provided:   * 1. Appropriately simulated environment where assessment can take place   2. Access to relevant work environment   3. Resources relevant to the proposed activities or tasks |
| 1. Methods of assessment | Competency in this unit may be assessed through:  Examples:   1. Practical assessment 2. Oral assessment 3. Portfolio of evidence 4. Project 5. Case study 6. Third party report 7. Written tests |
| 1. Context of assessment | Competency may be assessed in a:  4.1 Workplace  4.2 Simulated workplace |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the industry sector and workplace job role is recommended. |

# PERFORM FLEECE MANAGEMENT

**UNIT CODE: 0811 251 03 A**

**UNIT DESCRIPTION**

This unit describes the competencies required by a sheep shearer to perform fleece management. It involves conducting fleece collection, grading and packing

**ELEMENTS AND PERFORMANCE CRITERIA**

|  |  |
| --- | --- |
| **ELEMENT**  These describe the key outcomes which make up workplace functions | **PERFORMANCE CRITERIA**  These are assessable statements which specify the required level of performance for each of the elements  ***(Bold and italicized terms are elaborated in the range)*** |
| * + - 1. Conduct fleece collection | * 1. PPEs are donned as per work requirements   2. **Fleece** **sorting** is conducted as per work requirement   3. Fleece weighing and recording is performed as per work requirement   4. Waste is disposed as per work place procedures |
| * + - 1. Conduct fleece grading | * 1. PPEs are donned as per work requirement   2. **Fleece grading** is performed as per work requirements   3. Graded fleece is weighed as per work requirements   4. Waste is disposed as per work place procedures   5. Documents are maintained as per work requirements |
| * + - 1. Conduct fleece packing | * 1. Packaging materials are identified according to work requirements.   2. Fleece is packaged according to work requirements   3. Fleece is labelled as per work requirement   4. Fleece is stored as per work requirement |

**RANGE**

This section provides work environment and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

|  |  |
| --- | --- |
| **Variable** | **Range** |
| 1. **Fleece** **sorting** may include but not limited to: | * By breeds * Merino * Corriedale * Romney marsh * Hampshire down * Suffolk * Dorper * Red Maasai * Black head Persia * By sex * By age * By body part |
| 1. **Fleece** **grading** may include but not limited to: | * + Fibre length   + True to breed type   + Volume   + Colour   + Cleanliness   + Tensile strength   + Lustre |

**REQUIRED KNOWLEDGE AND SKILLS**

This section describes the knowledge and skills required for this unit of competence. **Required knowledge**

The individual needs to demonstrate knowledge of:

* Common wool sheep breeds
* external parasites identification
* effect of environment on wool quality
* hygiene
* grading of fleece
* fleece storage
* fleece storage materials
* waste disposal

**Required skills**

The individual needs to demonstrate the following skills:

* Grading of fleece
* Packing fleece
* Weighing fleece
* Sorting fleece
* Fleece labelling
* Waste disposal
* Analytical skills
* Interpersonal skills
* Attention to detail
* Team player
* Numeracy
* Communication skills
* Integrity and tolerance
* Work ethics
* Use of PPEs

**Worker Behavior/Personal attributes**

* Manual dexterity
* Attention to detail

**Required resources**

* Fleece

Tools and equipment

* PPEs
* Weighing balance
* Grading tables
* Wool pressing machine
* Hooks

**Materials and Supplies**

* Manila ropes
* Wool bags
* Stationery

**EVIDENCE GUIDE**

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

|  |  |
| --- | --- |
| 1. Critical aspects of competency | **Assessment requires evidence that the candidate**:   * 1. Conducted fleece sorting as per work requirement   2. Performed fleece grading as per work requirements   3. Performed fleece weighing and recording as per work requirement   4. Maintained documents as per work requirements   5. Packaged fleece as per work requirement   6. Labelled fleece as per work requirement   7. Stored fleece as per work requirement   8. Disposed waste as per workplace procedures |
| 1. Resource implications | The following resources should be provided:   * 1. Appropriately simulated environment where assessment can take place   2. Access to relevant work environment   3. Resources relevant to the proposed activities or tasks |
| 1. Methods of assessment | Competency in this unit may be assessed through:  Examples:   * 1. Practical assessment   2. Oral assessment   3. Portfolio of evidence   4. Project   5. Case study   6. Third party report   7. Written tests |
| 1. Context of assessment | Competency may be assessed in a:  4.1 Workplace  4.2 Simulated workplace |
| 1. Guidance information for assessment | Holistic assessment with other units relevant to the industry sector and workplace job role is recommended. |