

**REPUBLIC OF KENYA**

**COMPETENCY BASED MODULAR CURRICULUM**

**FOR**

**FOOTWEAR PRODUCTION**

**KNQF LEVEL 4**

**PROGRAMME ISCED CODE: 0723 354A**

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# FOREWORD

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

Reforms in the education sector are necessary to achieve Kenya Vision 2030 and meet the provisions of the Constitution of Kenya 2010. The education sector had to be aligned to the Constitution, and this resulted in the formulation of the Policy Framework for Reforming Education and Training in Kenya (Sessional Paper No. 14 of 2012). A key feature of this policy is the radical change in the design and delivery of TVET training. This policy document requires that training in TVET be competency-based, curriculum development be industry-led, certification be based on demonstration of competence, and the mode of delivery allow for multiple entry and exit in TVET programmes.

These reforms demand that Industry takes a leading role in curriculum development to ensure the curriculum addresses its competence needs. It is against this background that this curriculum has been developed. For trainees to build their skills on foundational hands-on activities of the occupation, units of learning are grouped in modules. This has eliminated duplication of content and streamlined exemptions based on skills acquired as a trainee progresses in the up-skilling process, while at the same time allowing trainees to be employable in the shortest time possible through the acquisition of part qualifications.

It is my conviction that this curriculum will play a great role in developing competent human resources for the Foot Wear Production Sector’s growth and development.

**PRINCIPAL SECRETARY**

**STATE DEPARTMENT FOR TVET**

**MINISTRY OF EDUCATION**

**PREFACE**

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

TVET Act CAP 210A and Sessional Paper No. 1 of 2019 on Reforming Education and Training in Kenya for Sustainable Development 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 industry, as well as increase the global competitiveness of the Kenyan labour force.

This curriculum has been developed in adherence to the Kenya National Qualifications Framework and CBETA standards and guidelines. The curriculum is designed and organized into Units of Learning with Learning Outcomes, suggested delivery methods, learning resources, and methods of assessing the trainee’s achievement. In addition, the units of learning have been grouped in modules to concretize the skills acquisition process and streamline upskilling.

I am grateful to all expert trainers and everyone who played a role in translating the Occupational Standards into this competency-based modular curriculum.

# ACKNOWLEDGEMENT

This curriculum has been designed for competency-based training and has independent units of learning that allow the trainee flexibility in entry and exit. In developing the curriculum, significant involvement and support were received from expert trainers, institutions and organizations.

I recognize with appreciation the role of the Leather National Sector Skills Committee (NSSC) in ensuring that competencies required by the industry are addressed in the curriculum. I also thank all stakeholders in the Foot Wear Production Sector for their valuable input and everyone who participated in developing this curriculum.

I am convinced that this curriculum will go a long way in ensuring that individuals aspiring to work in the Leather Sector acquire competencies to perform their work more efficiently and effectively.

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# ACRONYMS

PPE Personal Protective Equipment

NSSC National Sector Skills Committee

TVET Technical and Vocational Education and Training

TVETA Technical and Vocational Education and Training Authority

ISCED International Standard Classification of Education

# KEY TO UNIT CODE



# COURSE OVERVIEW

Footwear production level 4 qualification consists of competencies that an individual must have to work in a footwear production industry. It involves footwear materials preparation, performing footwear closing operations, carrying out footwear construction, carrying out footwear construction and finishing, repairing footwear products, carrying out pattern cutting,

Units of learning comprising Footwear production level 4 qualification include the following core units:

**Summary Of Units Of Learning**

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit Code** | **Units Title** | **Unit Duration (Hours)** | **Credit Factor** |
| **MODULE I** | | | |
| **0723 251 01A** | Foot Wear Materials preparation I | 100 | 10.0 |
| **0723 251 02A** | Footwear closing operations I | 90 | 9.0 |
| **0723 251 03A** | Footwear construction and finishing I | 130 | 13.0 |
| **0723 251 04A** | Footwear products Repair | 35 | 3.5 |
| **MODULE II** | | | |
| **0723 351 01A** | Foot wear pattern cutting | 100 | 10.0 |
| **0723 351 02A** | Foot Wear Materials preparation II | 50 | 5.0 |
| **0723 351 03A** | Footwear closing operations II | 120 | 12.0 |
| **0723 351 04A** | Footwear construction and finishing II | 200 | 20.0 |
|  | Industrial attachment | 320 | 32.0 |
| **Sub Total** | | **790** | **119.5** |
| **Industry Training** | | **320** |  |
| **GRAND TOTAL** | | **1465** | **146.5** |

**Entry Requirements**

An individual entering this course should have any of the following minimum requirements:

1. Kenya Certificate of Secondary Education (KCSE) mean grade E

**Or**

1. Certificate in footwear production or related Level 3 certificate

**Or**

1. Equivalent qualifications as determined by TVETA.

**Trainer qualification**

Qualifications of a trainer for this course include:

1. Possession of a minimum Craft Certificate / Level 5 in Footwear Production or in related trade area; and
2. Be registered by TVETA.

**Industry Training**

An individual enrolled in this course will be required to undergo Industry training for a minimum period of 320 hours in the Footwear Production sector. The industrial training may be taken after completion of all units for those pursuing the full qualification or be distributed equally in each unit for those pursuing part qualification. In the case of dual training model, industrial training shall be as guided by the dual training policy.

**Assessment**

The course shall be assessed formatively and summatively:

1. During formative assessment all performance criteria shall be assessed based on performance criteria weighting.
2. Number of formative assessments shall minimally be equal to the number of elements in a unit of competency
3. Assessment of basic and common competencies shall be integrated in the core units
4. Theoretical assessment shall be integrated in practical assessment and conducted orally in both formative and summative assessments.
5. Theoretical and practical weight shall be 10:90 respectively for each unit of learning.
6. Formative and summative assessments shall be weighted at 60% and 40% respectively in the overall unit of learning score
7. Assessment performance rating for each unit of competency shall be as follows:

|  |  |
| --- | --- |
| **MARKS** | **COMPETENCE RATING** |
| 80 -100 | Attained Mastery |
| 65 - 79 | Proficient |
| 50 - 64 | Competent |
| 49 and below | Not Yet Competent |
| Y | Assessment Malpractice/irregularities |

1. Assessment for Recognition of Prior Learning (RPL) may lead to award of part and/or full qualification.

**Certification**

A candidate will be issued with a Certificate of Competency upon demonstration of competence in a core Unit of Competency. To be issued with Kenya **National TVET Certificate** in in Footwear Production Level 4 the candidate must demonstrate competence in all the Units of Competency as given in the qualification pack. A Statement of Attainment certificate may be issued upon demonstration of competence in a certifiable element within a unit.

The certificates will be issued by the Qualification Awarding Institution

# MODULE I

## FOOT WEAR MATERIALS PREPARATION I

**UNIT CODE:** **0723 251 01A**

**Relationship to Occupational Standards**

This unit addresses the Unit of Competency: **Carry Out Foot Wear Materials preparation I**

**Duration of Unit:** 100 hours

**Unit Description**

This unit specifies the competencies required to carry out materials preparation. It involves identifying cutting tools, equipment, materials and machines, making and cutting footwear patterns, identifying footwear materials, cutting footwear materials, inspecting footwear components, component marking and preparation.

**Summary of Learning Outcomes**

By the end of this unit, the learner should be able to:

|  |  |  |
| --- | --- | --- |
| **S/No** | **Learning Outcomes** | **Duration (Hours)** |
|  | Utilize cutting and material preparation tools, machines equipment and materials. | **12** |
|  | Make and cut footwear patterns | **22** |
|  | Identify footwear materials | **16** |
|  | Cut footwear materials | **20** |
|  | Inspect footwear components | **18** |
|  | Component marking and preparation | **12** |
| **Total** | | **100** |

**Learning Outcomes, Content and Suggested Assessment Methods**

|  |  |  |
| --- | --- | --- |
| **Learning Outcome** | **Content** | **Suggested Assessment Methods** |
| 1. Utilize cutting and material preparation tools, machines equipment and materials. | * Tools, equipment, machines and materials for; * Footwear pattern making * Footwear pattern cutting * Component preparation * Handling and storage * Occupational safety * Maintenance operations | * Written assessment * Oral assessment * Practical assessment * Projects |
| 2.Make and cut footwear patterns | * Pattern making procedure * Methods of producing, * Mean forme * Standard forme * Sectional patterns (Outer, lining, bottom) * Allowances * Cutting patterns * Economical layout of materials * Net and working patterns * Work presentation * Record and documentation * Safety practices | * Practical * Written assessment * Oral assessment * Projects |
| 3. Identify footwear materials | * Footwear materials * Types of footwear materials * Leather * Leather substitutes * Fittings/accessories * Types of adhesives * Bottom materials * Selection * Physical properties of footwear materials * Material safety | * Written assessment * Oral assessment * Practical assessment * Projects |
| 4. Cut footwear materials | * Principles of Cutting * Methods of cutting * Machine cutting * Hand cutting * Economical layout of material * Quality consideration * Accuracy considerations * Health and safety practices. | * Written assessment * Oral assessment * Practical assessment * Projects |
| 5. Inspect footwear components | * Characteristics and variation in Footwear components * Upper and Bottom materials * Footwear colour and shade * Footwear components substance * Footwear components defects * Footwear component quantity * Footwear component design * Footwear component coding | * Written assessment * Oral assessment * Practical assessment * Projects |
| 6. Component marking and preparation | * Methods of Component marking * Procedures of Component Marking * Splitting * Splitting methods * Splitting procedures and operations * Skiving * Skiving methods * Skiving procedures and operation | * Written assessment * Oral assessment * Practical assessment * Projects |

**Suggested Methods of Instruction**

* Direct instruction
* Project based
* Discussions
* Demonstration by trainer
* Practice by the trainee

**Recommended Resources for 25 Trainees**

|  |  |  |  |
| --- | --- | --- | --- |
| **General resources** | **Tools and equipment** | **Material and supplies** | **Machines** |
| 1 equipped workshop with flat working benches | 25 Rulers (30 cm and 1M)  15 Lasts  25 Tailors tape  25 Clicking knife  25 Scissors  25 Indian pattern knives  25 Cutting rubber mats  5 Oil stones  25 Leather shears  25 Awls  (*to be tailored according to task description*) | 10 Masking tapes  Manilla paper / Drawing paper  25 Drawing pencils  25 Silver pens / crayons / tailor’s chalk  Assorted adhesives Assorted leather types  Assorted leather substitutes  Assorted accessories  PPE’s  (*to be tailored according to task description*) | 1 Clicking press / machine  Assorted cutting dies  1 Splitting machine  5 Skiving machines  (*to be tailored according to task description*) |

## FOOTWEAR CLOSING OPERATIONS I

**UNIT CODE:** **0723 251 02A**

**Relationship to Occupational Standards**

This unit addresses the Unit of Competency: **Perform Footwear closing operations I**

**Duration of Unit:** 90 hours

**Unit Description**

This unit covers the competencies required to perform footwear closing operations. It entails utilizing tools, equipment, materials and machines, performing footwear closing operations carrying out shoe upper finishing operations

**Summary of Learning Out comes**

By the end of this unit, the learner should be able to:

|  |  |  |
| --- | --- | --- |
| **S/No** | **Learning Outcomes** | **Duration (Hours)** |
| 1. | Utilize tools, equipment, materials and machines for closing operations | **30** |
| 2. | Perform footwear closing operations | **40** |
| 3. | Carry out shoe upper finishing operations | **20** |
| **Total** | | **90** |

**Learning Outcomes, Content and Suggested Assessment Methods**

|  |  |  |
| --- | --- | --- |
| **Learning Outcome** | **Content** | **Suggested Assessment Methods** |
| 1. Utilize tools, equipment, materials and machines for closing operations | * Footwear closing tools, equipment and machines * Footwear closing materials * Machine, tools and equipment setting and operation * Procedure of basic maintenance * Care and handling * Handling * Moving * Storing * Maintenance * operation * Health and Safety practices * Documentation and reporting | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Perform footwear closing operations | * Footwear component Fitting * Footwear components closing procedures * Types of seams * Open seams * Closed seams * Silked seam * Butt * Top line and Edge treatment methods * Folding * Binding * Edge staining. * Top line and Edge treatment Materials, Tools, machines and equipment * Top line and Edge treatment procedures * Records and documentations * Health and safety practices | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Carry out shoe upper finishing operations | * Shoe upper finishing * Trimming * Reinforcement of Shoe upper eyelet * Temporary lacing. * Fitting of toe puffs and stiffeners * Edge staining * Quality checks and control * Records and documentations * Health and safety practices | * Written assessment * Oral assessment * Practical assessment * Projects |

**Suggested Methods of Instruction**

* Direct instruction
* Project based
* Discussions
* Demonstration by trainer
* Practice by the trainee

**Recommended Resources for 25 Trainees**

|  |  |  |  |
| --- | --- | --- | --- |
| **General resources** | **Tools and equipment** | **Material and supplies** | **Machines** |
| 1 equipped workshop | 10 Slit punches  25 Stitching awls  25 Cutting boards  25 Seam rippers  25 Scissors  (*to be tailored according to task description*) | PPE’s  Assorted stitching threads  Shoe upper leather  Leather lining  Eyelets  Dyes / stains  Assorted adhesives  Shoe laces  (*to be tailored according to task description*) | Assorted sewing machines  Seam rubbing down machine  Folding machines  (*to be tailored according to task description*) |

## FOOTWEAR CONSTRUCTION AND FINISHING I

**UNIT CODE:** **0723 251 03A**

**Relationship to Occupational Standards**

This unit addresses the Unit of Competency: **Carry out footwear construction and finishing I**

**Duration of Unit:** 130 hours

**Unit Description**

This unit covers the competencies required to carry out footwear construction. It entails utilizing tools, equipment and materials for construction and finishing operations, assembling shoe upper and bottom components, carrying out conditioning and shoe lasting operations, performing sole attaching operations and carrying out basic finishing operations.

**Summary of Learning Outcomes**

By the end of this unit, the learner should be able to:

|  |  |  |
| --- | --- | --- |
| **S/No** | **Learning Outcomes** | **Duration (Hours)** |
|  | utilize tools, equipment and materials for construction and finishing operations | **20** |
|  | Assemble shoe upper and bottom components | **14** |
|  | Carry out conditioning and shoe lasting operations | **44** |
|  | Perform sole attaching operations | **32** |
|  | Carry out basic finishing operations | **20** |
| **Total** | | **130** |

**Learning Outcomes, Content and Suggested Assessment Methods**

|  |  |  |
| --- | --- | --- |
| **Learning Outcome** | **Content** | **Suggested Assessment Methods** |
| 1. utilize tools, equipment and materials for construction and finishing operations | * Footwear construction and finishing tools, equipment and machines * Tools, equipment and machine operation * Basic maintenance * Care and handling * Footwear construction and finishing materials * Selection * Sources * Documentation and reporting | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Assemble shoe upper and bottom components | * Assembling of; * Shoe uppers * Bottom components * Last * Materials * ‘Marring up’ shoe uppers, bottom components and last * Interpretation of Job requirements * Quality checks and control | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Carry out conditioning and shoe lasting operations | * Type of shoe upper * Methods of conditioning * Rapid condition * Contact mulling * Toe steaming * Shoe conditioning equipment and machines * Conditioning procedures * Methods of lasting * Flat lasting * Out flanged * Tools, equipment and machines * Quality checks and controls * Bottom stock components preparation * Heat setting | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Perform sole attaching operations | * Methods of sole attaching * Cemented * Molded construction * Veldschoen * California * Sole attaching procedures * Bottom preparation * Sole attachment * Heel attaching * Scouring * Attaching and pressing | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Carry out finishing operations | * Footwear finishing operations * Heel pairing * Edge staining * Methods of footwear finishing * Edge finishing * Bottom finishing * Polishing * Shoe room operations (not limited to;) * Tack removal * Sock insertion * Cleaning * Hot air treeing * Dressing * Attach trimming * Packing * Labelling * Spray dressing * Final inspection * Quality check and control * Documentation and reporting * Packaging and Dispatch | * Written assessment * Oral assessment * Practical assessment * Projects |

**Suggested Methods of Instruction**

* Direct instruction
* Field trips
* Project based
* Discussions
* Demonstration by trainer
* Practice by the trainee

**Recommended Resources for 25 Trainees**

|  |  |  |  |
| --- | --- | --- | --- |
| **General resources** | **Tools and equipment** | **Material and supplies** | **Machines** |
| 1 equipped workshop | PPE’s  25 Lasts  25 Shoe hammers  25Pincers  10 Mallet  25 Stitching awls  Heat source  Brushes  (*to be tailored according to task description*) | Assembled shoe uppers  Leather lining  Tacks  Assorted adhesives  Soles  Shanks  Sewing threads  Stiffeners  Texon boards  Scouring paper  Assorted dyes / polishes and stains  Applicator / pad  (*to be tailored according to task description*) | Toe puff and counter setting machine  Lasting machines  Assorted conditioning machines  Scouring machine  Spraying machine  (*to be tailored according to task description*) |

## FOOTWEAR PRODUCTS REPAIR

**UNIT CODE: 0723 251 04A**

**Relationship to Occupational Standards**

This unit addresses the Unit of Competency: **Repair footwear products**

**Duration of unit:** 35 hours

**Unit Description**

This unit covers the competencies required to carry out footwear shoe repair operations. It entails identifying shoe repair operations, utilizing tools, machines, equipment and materials and carrying out shoe repair operations.

**Summary of Learning Outcomes**

By the end of this unit, the learner should be able to:

|  |  |  |
| --- | --- | --- |
| **S/No** | **Learning Outcomes** | **Duration (Hours)** |
|  | Identify shoe repair operations | **9** |
|  | utilize tools and equipment for shoe repair operations | **6** |
|  | Carry out shoe repair operations | **20** |
| **Total** | | **35** |

**Learning Outcomes, Content and Suggested Assessment Methods**

|  |  |  |
| --- | --- | --- |
| **Learning Outcome** | **Content** | **Suggested Assessment Methods** |
| 1. Identify shoe repair operation | * Assessment for repair * Shoe repair operations * Upper repairs * Sole repairs * Bottom repair * Hand stitching | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Utilize tools, equipment and materials for shoe repair. | * Shoe repair operation tools, equipment and machines * identification * Machine, tools/equipment operation * Basic maintenance * Care and handling * Repairing materials * Stitching threads * Adhesives * Patches * Waxes * Documentation and reporting | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Carry out shoe repair operations | * Shoe repair operations and procedures.   + Sole mending   + Patching worn out shoe upper   + Re-lasting the shoe upper.   + Heel rebuilding   + Sole attaching   + Finishing operations * Quality check and control * Documentation and reporting * Packaging and Dispatch | * Written assessment * Oral assessment * Practical assessment * Projects |

**Suggested Methods of Instruction**

* Direct instruction
* Projects
* Case studies
* Discussions
* Demonstration by trainer
* Practice by the trainees

**Recommended Resources for 25 Trainees**

|  |  |  |  |
| --- | --- | --- | --- |
| **General resources** | **Tools and equipment** | **Material and supplies** | **Machines** |
| 1 equipped workshop | 25 Stitching awl  Sewing needles  10 Shoe anvils  Assorted Lasts  Shoe hammer  Lasting pliers  Mallet  Indian pattern knife  Leather shears  Pincers  (*to be tailored according to task description*) | PPE’s  Leather dyes  Waxes  Tacks  Assorted adhesives  Stitching threads  Repair patches  Soles  Shoe laces  Packaging materials  (*to be tailored according to task description*) | Assorted sewing machine  (*to be tailored according to task description*) |

# MODULE II

## FOOT WEAR PATTERN CUTTING

**UNIT CODE:** **0723 351 01A**

**Relationship to Occupational Standards**

This unit addresses the Unit of Competency: **Carry out Foot Wear pattern cutting**

**Duration of Unit:** 80 hours

**Unit Description**

This unit specifies the competencies required to carry out pattern cutting. It involves Interpreting footwear sketches/illustrations, performing footwear pattern cutting and carrying out footwear pattern grading

**Summary of Learning Outcomes**

By the end of this unit, the learner should be able to:

|  |  |  |
| --- | --- | --- |
| **S/No** | **Learning Outcomes** | **Duration (Hours)** |
| 1. | Develop footwear patterns | **60** |
| 2. | Perform footwear pattern cutting | **20** |
| 3. | Carry out footwear pattern grading | **20** |
| **Total** | | **80** |

**Learning Outcomes, Content and Suggested Assessment Methods**

|  |  |  |
| --- | --- | --- |
| **Learning Outcome** | **Content** | **Suggested Assessment Methods** |
| 1. Develop footwear patterns | * Footwear design Materials, Machines, Tools and equipment * Handling * Moving * Storing * Maintenance * operation * Classification of footwear pattern * Masking Methods * Standard geometrical dimensions * Footwear Design Sketching and illustration * Pattern Development * Mean forme * Standard forme * Sectional patterns (Outer, lining, bottom) | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Perform footwear pattern cutting | * Cutting patterns * Work presentation | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Carry out footwear pattern grading | * Pattern grading tools, materials and machines * Footwear Grading methods * Footwear Pattern grading procedures * Record and documentation * Safety practices | * Written assessment * Oral assessment * Practical assessment * Projects |

**Suggested Methods of Instruction:**

* Direct instruction
* Project
* Discussions
* Demonstration by trainer
* Practice by the trainee
* Projection
* Flow charts
* Notes taking

**Required resources**

|  |  |  |  |
| --- | --- | --- | --- |
| **General resources** | **Tools and equipment** | **Material and supplies** | **Machines** |
| 1 equipped workshop with flat working benches | 25 Rulers (30 cm and 1M)  15 Lasts  25 Tailors tape  25 Clicking knife  25 Scissors  25 Indian pattern knives  25 Cutting mats  5 Oil stones  25 Leather shears  25 Awls  (*to be tailored according to task description*) | 10 Masking tapes  Manilla paper / Drawing paper  25 Drawing pencils  25 Silver pens / crayons / tailor’s chalk  Assorted adhesives Assorted leather types  Assorted leather substitutes  Assorted  PPE’s  (*to be tailored according to task description*) | 1 Clicking press / machine  Assorted cutting dies  (*to be tailored according to task description*) |

## FOOT WEAR MATERIALS PREPARATION II

**UNIT CODE:** **0723 351 02A**

**Relationship to Occupational Standards**

This unit addresses the Unit of Competency: **Carry out Foot Wear Materials preparation**

**Duration of Unit:** 50 hours

**Unit Description**

This unit specifies the competencies required to carry out materials preparation. It involves identifying footwear materials, cutting footwear materials and component marking and preparation.

**Summary of Learning Outcomes**

By the end of this unit, the learner should be able to:

|  |  |  |
| --- | --- | --- |
| **S/No** | **Learning Outcomes** | **Duration (Hours)** |
| 1. | Identify footwear materials | **18** |
| 2. | Cut footwear material | **12** |
| 3. | Perform Component marking and preparation | **20** |
| **Total** | | **50** |

**Learning Outcomes, Content and Suggested Assessment Methods**

|  |  |  |
| --- | --- | --- |
| **Learning Outcome** | **Content** | **Suggested Assessment Methods** |
| 1. Identify footwear materials | * Footwear materials * Classification * Types of leather * Types of leather substitutes * Fittings/accessories * Types of adhesives * Selection * Material safety * Cutting tools, equipment and machines * Classification * Selection | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Cut footwear materials | * Work ticket interpretation * Material defects and Inspection Techniques * Footwear Cutting Tools, machines and equipment * Cutting tools * Punching tools * Sharpening tools * Care and handling * Handling * Moving * Storing * Sharpening and grinding * operation * Principles of Cutting * Techniques * Economical layout. * Quality consideration * accuracy * Safety | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Perform Component marking and preparation | * Methods of Component marking * Identification marking * Stitch marking * Component marking Tools and equipment * Procedures of Component Marking * Decoration methods * Stamping * Carving * Stitches * Decoration Tools and equipment * Decoration procedures and operations * Splitting Operation * Checking Leather substance * Splitting machine, tools and equipment * Splitting methods * Splitting procedures and operations * Skiving * Checking Leather substance * Skiving Tools, machines and equipment * Skiving methods * Skiving procedures and operation | * Written assessment * Oral assessment * Practical assessment * Projects |

**Suggested Methods of Instruction:**

* Direct instruction
* Project
* Field trips
* Discussions
* Demonstration by trainer
* Practice by the trainee
* Projection
* Notes taking

**List of Recommended Resources:**

|  |  |  |  |
| --- | --- | --- | --- |
| **General resources** | **Tools and equipment** | **Material and supplies** | **Machines** |
| 1 equipped workshop with flat working benches | 25 Rulers (30 cm and 1M)  15 Lasts  25 Tailors tape  25 Clicking knife  25 Scissors  25 Indian pattern knives  25 Cutting rubber mats  5 Oil stones  25 Leather shears  25 Awls  (*to be tailored according to task description*) | 10 Masking tapes  Manilla paper / Drawing paper  25 Drawing pencils  25 Silver pens / crayons / tailor’s chalk  Assorted adhesives Assorted leather types  Assorted leather substitutes  Assorted accessories  PPE’s  (*to be tailored according to task description*) | 1 Clicking press / machine  Assorted cutting dies  1 Splitting machine  5 Skiving machines  (*to be tailored according to task description*) |

## FOOTWEAR CLOSING OPERATIONS II

**UNIT CODE:** **0723 351 03A**

**Relationship to Occupational Standards**

This unit addresses the Unit of Competency: **Perform Footwear closing operations II**

**Duration of Unit:** 120 hours

**Unit Description**

This unit covers the competencies required to perform footwear closing operations. It entails Utilizing tools, equipment, materials and machines, performing footwear closing operations carrying out shoe upper finishing operations.

**Summary of Learning Out comes**

By the end of this unit, the learner should be able to:

|  |  |  |
| --- | --- | --- |
| **S/No** | **Learning Outcomes** | **Duration (Hours)** |
| 1. | Utilize tools, equipment, materials and machines for closing operations | **24** |
| 2. | Perform footwear closing operations | **66** |
| 3. | Carry out shoe upper finishing operations. | **30** |
| **Total** | | **120** |

**Learning Outcomes, Content and Suggested Assessment Methods**

|  |  |  |
| --- | --- | --- |
| **Learning Outcome** | **Content** | **Suggested Assessment Methods** |
| * + - 1. utilize tools, equipment, materials and machines for closing operations | * Footwear closing tools, equipment and machines * Footwear closing materials * Threads * Adhesives * Machine, tools and equipment setting and operation * Basic maintenance * Care and handling * Safety * Documentation and reporting | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Perform footwear closing operations | * Footwear component pairing * Footwear components closing procedures * Types of seams * Open seams * Closed seams * Silked seam * Butt * Top line and Edge treatment methods * Top line and Edge treatment Materials, Tools, machines and equipment * Top line and Edge treatment procedures and operations * Records and documentations * Safety practices | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Carry out shoe upper finishing operations | * Shoe upper finishing * Trimming * Reinforcement of Shoe upper eyelet * Temporary lacing. * Fitting of toe puffs and stiffeners * Edge staining * Quality checks and control * Records and documentations * Safety practices | * Written assessment * Oral assessment * Practical assessment * Projects |

**Suggested Methods of Instruction:**

* Direct instruction
* Project based
* Field trips
* Discussions
* Demonstration by trainer
* Practice by the trainee

**List of Recommended Resources:**

|  |  |  |  |
| --- | --- | --- | --- |
| **General resources** | **Tools and equipment** | **Material and supplies** | **Machines** |
| 1 equipped workshop | 10 Slit punches  25 Stitching awls  25 Cutting boards  25 Seam rippers  25 Scissors  (*to be tailored according to task description*) | PPE’s  Assorted stitching threads  Assorted leather accessories  Shoe upper leather  Leather lining  Eyelets  Dyes / stains  Assorted adhesives  Shoe laces  (*to be tailored according to task description*) | Assorted sewing machines  Seam rubbing down machine  Folding machines  (*to be tailored according to task description*) |

## FOOTWEAR CONSTRUCTION AND FINISHING II

**UNIT CODE:** **0723 351 04A**

**Relationship to Occupational Standards**

This unit addresses the Unit of Competency: **Perform Footwear construction and finishing II**

**Duration of Unit:** 200 hours

**Unit Description**

This unit covers the competencies required to carry out footwear construction. It involves applying knowledge of footwear production, identifying footwear production tools, equipment and machines, identifying footwear production materials and demonstrating footwear production practices, assembling shoe upper, bottom components and ‘last plant’, carrying out shoe lasting operations, carrying out conditioning operations and performing sole attaching operations.

**Summary of Learning Outcomes**

By the end of this unit, the learner should be able to:

|  |  |  |
| --- | --- | --- |
| **S/No** | **Learning Outcomes** | **Duration (Hours)** |
|  | Apply knowledge of footwear production | **32** |
|  | Identify footwear production tools, equipment and machines | **10** |
|  | Identify footwear production materials | **10** |
|  | Demonstrate footwear production practices | **20** |
|  | Assemble shoe upper, bottom components and ‘last plant’ materials | **10** |
|  | Carry out shoe lasting operations | **10** |
|  | Carry out conditioning operations | **54** |
|  | Perform sole attaching operations | **54** |
| Total | | **200** |

**Learning Outcomes, Content and Suggested Assessment Methods**

|  |  |  |
| --- | --- | --- |
| **Learning Outcome** | **Content** | **Suggested Assessment Methods** |
| 1. Apply knowledge of footwear production | * Introduction to footwear * footwear terminology * Steps of footwear production * Parts and styles of footwear * parts * Quarters * Toe cap * Apron * Vamp * Tongue * Back strap * Heel * Sole * Stiffener * styles * derby/Gibson * moccasin * sandals * oxford * slip-on * Foot anatomy * Structure of the foot * Growth * Functions of the foot * Common feet disorders * Foot measurements | * Case studies * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Identify footwear production tools, equipment and machines | * Footwear tools, equipment and machines * Procedure of Maintenance * Care and handling * Storage of tools and machines | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Identify footwear production materials | * Footwear materials * Sources of footwear material * Types of footwear materials * Footwear accessories * Bottom and upper components * Material defects | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Demonstrate footwear production practices | * footwear production practices * general methods of production * Quality control in footwear production * Workplace documentation * Minimization of Wastage of production material * Responsibilities, duties and target setting * Problems, conflicts or contingencies at work place | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Identify tools, equipment and materials for construction and finishing operations | * Footwear tools, equipment and machines * Finishing materials * Shoe room materials * Shoe room operation tools, equipment and machines | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Assemble shoe upper, bottom components and ‘last plant | * Assembling methods * Shoe uppers * Bottom components * Last * Materials * ‘Marring up’ shoe uppers, bottom components and last * Interpretation of Job requirements * Quality checks and control * Records and documentations * Safety practices | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Carry out shoe lasting and conditioning operations | * Methods of lasting * String lasting * Flat lasting * Vertical lasting * Out flanged * Tools, equipment and machines * Quality checks and controls * Heat setting * Type of shoe upper * Methods of conditioning * Rapid condition * Contact mulling * Toe steaming * Shoe conditioning equipment and machines * Conditioning procedures | * Written assessment * Oral assessment * Practical assessment * Projects |
| 1. Perform sole attaching operations | * Methods of sole attaching * Cemented * Molded construction * Veldschoen * California * Sole attaching procedures * Bottom preparation * Sole attachment * Heel attaching * Scoring * attaching and pressing * Footwear finishing operations * Shoe room operations and procedures. | * Written assessment * Oral assessment * Practical assessment * Projects |

**Suggested Methods of Instruction:**

* Direct instruction
* Project based
* Field trips
* Discussions
* Demonstration by trainer
* Practice by the trainee

**List of Recommended Resources:**

|  |  |  |  |
| --- | --- | --- | --- |
| **General resources** | **Tools and equipment** | **Material and supplies** | **Machines** |
| 1 equipped workshop | PPE’s  10 Slit punches  25 Stitching awls  25 Cutting boards  25 Seam rippers  25 Scissors  Assorted leather working tools and equipment  Brannock device  Assorted measuring equipment  Foot anatomy dummies  (*to be tailored according to task description*)  25 Lasts  25 Shoe hammers  25Pincers  10 Mallet  25 Stitching awls  Heat source  Brushes  (*to be tailored according to task description*) | Assorted stitching threads  Assorted leather types  Assorted leather substitutes  Leather linings  Assorted accessories  Eyelets  Dyes / stains  Assorted adhesives  Shoe laces  (*to be tailored according to task description*)  Assembled shoe uppers  Leather lining  Tacks  Assorted adhesives  Soles  Shanks  Sewing threads  Stiffeners  Texon boards  Scouring paper  Assorted dyes / polishes and stains  Applicator / pad  (*to be tailored according to task description*) | Assorted sewing machines  Assorted finishing machines  (*to be tailored according to task description*)  Toe puff and counter setting machine  Lasting machines  Assorted conditioning machines  Scouring machine  Spraying machine  (*to be tailored according to task description*) |