

**VQA**

NATIONAL QUALIFICATION [13UY0126-5]

UNDERWEAR   
PATTERN MAKER  
LEVEL 5

REVISION NO: 00

VOCATIONAL QUALIFICATIONS AUTHORITY

Ankara, 2013

[13UY0126-5] Underwear Patternmaker (Level 5)

Date of Publication: 30/01/2013 Rev. No:00

PREFACE

This reference guide, namely Underwear Pattern Maker (Level 5) National Qualification has been prepared in accordance with the provisions of the “Regulation on Vocational qualifications, Testing and Certification” issued pursuant to the Vocational Qualifications Authority (VQA) Law no 5544.

The qualification is drafted upon the Cooperation Protocol signed on 05/01/2012 by Istanbul Textile and Apparel Exporter Associations that has been appointed by the Protocol. After assessing opinions of the relevant organizations and institutions, the draft has been amended accordingly. The final draft has been evaluated by the VQA’s Textile, Garments, and Leather Sector Committee which has deemed it suitable. It has been approved by the Board of Directors of the VQA through its decision no 2013/07 of 30/01/2013 and decided to be placed within the National Qualification Framework (NQF).

We would like to extend our gratitude to all people, organizations and institutions that have expressed their opinions and contributed to the preparation, examination and verification processes of the qualification. We would like to offer it to the service of all likely beneficiaries.

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NATIONAL QUALIFICATION

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[13UY0126-5] Underwear Patternmaker (Level 5)

Date of Publication: 30/01/2013 Rev. No:00

INTRODUCTION

The key criteria referred to in the national qualification preparation process, the relevant sector committees’ review and the VQA’s Board of Directors’ approval processes are set in the   
Regulation on Vocational Qualification, Testing and Certification.

National qualification is defined by:

1. Name and level of the qualification,
2. Aim of the qualification,
3. Occupational standard, occupational standard units/duties or qualification units that provide the basis for the qualification,
4. Requirements for taking the qualifications test,
5. Learning outcomes and performance criteria per qualification unit,
6. Assessment and assessor's criteria to be implemented in the qualification process.
7. Conditions relating to the validity period of qualification certificate, renewal terms and supervision of certificate holder,
8. Institution and Sector Committee which respectively develop and approve the qualification.

National qualifications are built according to the relevant national occupational standards and/or to the relevant international occupational standards.

National Qualifications are set in cooperation with the bodies below:

* Formal and informal education and training institutions,
* Authorized certification bodies,
* Institutions having previously applied for authorization to the authority,
* Institutions having drawn up national occupational standard,
* Professional organizations

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[13UY0126-5] Underwear Patternmaker (Level 5)

Date of Publication: 30/01/2013 Rev. No:00

[13UY0126-5] UNDERWEAR PATTERN MAKER (Level 5)  
 NATIONAL QUALIFICATION

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| --- | --- | --- |
| 1 | NAME OF THE QUALIFICATION | Underwear Pattern Maker (Level 5) |
| 2 | REFERENCE CODE | 13UY0126-5 |
| 3 | LEVEL | 5 |
| 4 | INTERNATIONALCLASSIFICATION CODE | ISCO 08: 7532 |
| 5 | TYPE | - |
| 6 | CREDIT VALUE | - |
|  | A)DATE OF PUBLICATION | 30.01.2013 |
| 7 | B)REVISION NO | 00 |
| C) REVISION DATE | - |
| 8 | AIM | This qualification is aimed at complete, high quality and efficient development of the work of Underwear Pattern Maker (Level 5) occupation.  The main objective is to build a certified labor force that have necessary qualifications after formal and non-formal education along with real work life experience.  Underwear Patternmaker (Level 5) National Qualification has been prepared to maintain vocational standards for workers who know production stages and the technical features of the relevant tools in the garments industry in line with technological development.  This qualification allows Underwear Patternmaker (Level 5) to be certified with a valid and reliable document. Additionally, it constitutes for a source and reference to testing and certification (T&C) agencies. |
| 9 | OCCUPATIONAL STANDARD(S) FORMING THE BASIS FOR THE QUALIFICATION | |
| Underwear Patternmaker (Level 5) National Qualification Standard 10UMS0053-5 | | |
| 10 | REQUIREMENT(S) FOR TAKING THE QUALIFICATION EXAM | |
| - |  | |
| 11 | STRUCTURE OF THE QUALIFICATION | |
| 11-a) Mandatory Units | | |
| 13UY0126-5/A1 Quality, Environment, Occupational Health and Safety  13UY0126-5/A2 Work Organization and Distribution  13UY0126-5/A3 Underwear Pattern Making  13UY0126-5/A4 Getting Underwear Product Samples Ready and Control | | |

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[13UY0125-5] Underwear Patternmaker (Level 5)

Date of Publication: 30/01/2013 Rev. No: 00

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NATIONAL QUALIFICATION

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| 11-b) Elective Units | | |
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| 11-c) Alternatives for Grouping the Units and Additional Learning Outcomes | | |
| - | | |
| **12** | **ASSESSMENT** | |
| Assessment is performed in 2 Stages with a view to meet all performance criteria listed in the qualification unit.   1. Stage 1: Theoretical Examination 2. Stage 2: Performance Based Examination   Any candidate to fail in any unit of Stage 1 shall not be eligible to take the Stage 2 of the exam.  The validity period for the exam results is 1 year after the exam date. If a candidate fails in a unit or stage, s/he is eligible to retake the exam in the same period for those units or stages s/he previously failed at.  If candidate cannot succeed in both stages for all units in a year, s/he must sit in exams for each and every unit starting from year 2.  THEORETICAL EXAMINATION  The success of a candidate is assessed individually for each unit taking into consideration the level of candidate's meeting the criteria listed in assessment section. Theoretical exams of all units are organized together.  Theoretical exam questions are designed with a view to assess all learning outcomes and performance criteria intended to be assessed.  PERFORMANCE BASED EXAMINATION  Performance based exams are organized in real work environment or in controlled environments that are most identical to the real one.  Performance is assessed by means of parameters meeting the performance criteria listed within the units as well as the assessment criteria having a set of defined scores.  Assessment criteria include smaller pieces of work, namely critical action steps, and candidates are to score from each step. Each assessment is performed individually against each units. | | |
| **13** | VALIDITY OF CERTIFICATE | Validity of the Underwear Patternmaker (Level 5) qualification certificate is 5 years after the date of issue. |
| **14** | FREQUENCY OF SUPERVISION | The candidate is subject to supervision by the Testing and Certification Body at least once during the validity period of the Vocational Qualification Certificate. |
| **15** | ASSESSMENT METHODS TO BE FOLLOWED IN RENEWAL OF EXPIRED CERTIFICATES | At the end of validity period, necessary supervision activities are carried out for renewal. Provided that candidates certify a 2-year-work history as an Underwear Patternmaker (level 5) |

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|  |  | and that the qualification has not been revised or changed, certificate of positively evaluated individuals are prolonged for five (5) years without the need for an exam.  If thee candidates fail in the supervision or cannot certify their experience, they shall sit the performance exam.  If a change or revision takes place in the qualification, candidates are subject to theoretical or performance based exams for the concerning revised or changed units. |
| 16 | QUALIFICATION DEVELOPMENT INSTITUTION(S) | Istanbul Textile and Apparel Exporter Associations (ITKIB) |
| 17 | SECTOR COMMITTEE TO VERIFY QUALIFICATION | VQA Textile, Garments, Leather Sector Committee |
| 18 | APPROVALDATE AND NUMBER OF VQA's BOARD OF DIRECTORS | 30.01.2013-2013/07 |

[13UY0126-5/A1] Quality, Environment, Occupational Health and Safety Date of Publication: 30/01/2013 Rev. No:00

[13UY0126-5/A1] QUALITY, ENVIRONMENT, OCCUPATIONAL HEALTH AND SAFETY

QUALIFICATION UNIT

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| **1** | NAME OF THE QUALIFICATION UNIT | Quality, Environment, Occupational Health and Safety |
| **2** | REFERENCE CODE | 13UY0126-5/A1 |
| **3** | LEVEL | 5 |
| **4** | CREDIT VALUE | - |
| **5** | A)DATE OF PUBLICATION | 30.01.2013 |
| B)REVISION NO | 00 |
| C) REVISION DATE | - |
| **6** | OCCUPATIONAL STANDARD FORMING THE BASIS FOR THE QUALIFICATION UNIT | |
| Underwear Pattern Maker (Level 5) National Qualification Standard 10UMS0053-5 | | |
| **7** | LEARNING OUTCOMES | |
| Learning Outcome 1: Knows and applies Occupational Health and Safety and Environment Safety principles**.** | | |
| **Performance Criteria**  **1.1:** Follows and/or oversees quality steps and technical procedures in his/her occupational field.  **1.2:**  Takes occupational environment safety measures. | | |
| Learning Outcome 2: Knows and applies Occupational Health and Safety principles | | |
| Performance Criteria:  2.1: Knows and applies emergency measures and steps.  2.2: Knows occupational health and safety rules in his/her occupational field.  2.3: Uses necessary tools, materials and equipment concerning the occupation in line with OHS rules | | |
| **8** | **ASSESSMENT** | |
| **8 a)**  **Theoretical Examination** | | |
| Multiple-choice question system is used. Unit A1 exam is composed of 10 questions. Each question has equal points and evaluated with an answer key. Wrong answers are disregarded and only the correct answers are taken into account for the evaluation. The candidate shall have at least 60/100 to pass the examination. Each question is allocated with approximately 1-1.5 minutes. The examination uses the closed book system. Theoretical questions meet all the determined performance criteria. | | |
| **8 b)**  **Performance Based Examination** | | |
| Assessment of performance criteria related to Underwear Patternmaker (Level 5) - A1; Candidate response and/or comments to the scenarios built in line with the performance criteria and candidate behavior in the staged work environment are evaluated and scored accordingly. In order for candidates to succeed, they need to meet the minimum performance criteria and score at least 70/100 point in total.  For Unit A1, no performance based exam is organized. Performance assessment regarding this unit is performed during the performance based exams of the units A3 and A4. | | |

[13UY0126-5/A1] Quality, Environment, Occupational Health and Safety

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| 8 c) Other Conditions Related To Assessment | | |
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| 9 | QUALIFICATION DEVELOPMENT INSTITUTION(S) | ISTANBUL TEXTILE AND APPAREL EXPORTER ASSOCIATIONS (ITKIB) |
| 10 | SECTOR COMMITTEE TO VERIFY QUALIFICATION | VQA Textile, Garments, Leather Sector Committee |
| 11 | APPROVAL DATE AND NUMBER OF VQA's BOARD OF DIRECTORS | 30.01.2013-2013/07 |

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[13UY0126-5/A1] Quality, Environment, Occupational Health and Safety

Date of Publication: 30/01/2013 Rev. No: 00

**ANNEXES**

**ANNEX 1: Information on Recommended Training for the Qualification Unit**

**Content of Training:**

1. Occupational health and safety, measures against accidents, machine & personal protective equipment
2. Knowledge of Occupational Health and Safety
3. Quality management system information
4. Knowledge on occupational terms, symbols, abbreviations and basic concepts
5. Information on tools, equipment and materials concerning the occupational field
6. Basic information on working conditions and basic knowledge of labor and social security by-law.
7. Basic first aid knowledge
8. Knowledge of basic environment by-law.

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[13UY0126-5/A2] Work Organization and Distribution Date of Publication: 30/01/2013 Rev. No: 00

[13UY0126-5/A2] WORK ORGANIZATION AND DISTRIBUTION

QUALIFICATION UNIT

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| **1** | NAME OF THE QUALIFICATION UNIT | Work Organization and Distribution |
| **2** | REFERENCE CODE | 13UY0126-5/A2 |
| **3** | LEVEL | 5 |
| **4** | CREDIT VALUE | - |
|  | **A)** DATE OF PUBLICATION | 30.01.2013 |
| **5** | **B)** REVISION NO | 00 |
|  | **C)** REVISION DATE | - |
| **6** | OCCUPATIONAL STANDARD FORMING THE BASIS FOR THE QUALIFICATION UNIT | |
| Underwear Pattern Maker (Level 5) National Qualification Standard 10UMS0053-5 | | |
| **7** | LEARNING OUTCOMES | |
| Learning Outcome 1: Creates the work organization for the product. | | |
| Performance Criteria:  1.1: Arranges working environment for the model to be prepared.  1.2: Prepares necessary tool, equipment, material and environment for the model.  1.3: Makes time planning bearing the model and order delivery time in mind.  1.4: Completes and interprets sample material performance tests.  1.5: Plans task steps for the pattern.  1.6: Determines and meets personnel and group needs for professional development | | |
| Learning Outcome 2: Carries out work distribution | | |
| Performance Criteria:  2.1: Distributes group members' tasks (pattern making, cuts, machine use, and ironing) for the pattern.  2.2: Explains necessary technical details to members. | | |
| **8** | **ASSESSMENT** | |
| **8 a)**  **Theoretical Examination** | | |
| Multiple-choice question system is used. Unit A2 exam is composed of 10 questions at least. Each question has equal points and evaluated with an answer key. Wrong answers are disregarded and only correct answers are taken into account for the evaluation. The candidate shall have at least 60/100 to pass the examination. Duration of the examination is fixed according to 1-1.5 min. per question. The examination uses the closed book system. Theoretical questions meet all the determined performance criteria. | | |
| **8 b)**  **Performance Based Examination** | | |
| Assessment of performance criteria related to Underwear Patternmaker (Level 5) - A2; Candidate response and/or comments to the scenarios built in line with the performance criteria and candidate behavior in the staged work environment are evaluated and scored accordingly. In order for candidates to succeed, they need to meet the minimum performance criteria and get at least 70/100 point in total. | | |

[13UY0126-5/A2] Work Organization and Distribution

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| For Unit A2, no performance based exam is organized. Performance assessment regarding this unit is performed during the performance based exams of the units A3 and A4. | | |
| 8 c) Other Conditions Related to Assessment | | |
| - | | |
| 9 | QUALIFICATION DEVELOPMENT INSTITUTION(S) | ISTANBUL TEXTILE AND APPAREL EXPORTER ASSOCIATIONS (ITKIB) |
| 10 | SECTOR COMMITTEE TO VERIFY QUALIFICATION | VQA Textile, Garments, Leather Sector Committee |
| 11 | APPROVALDATE AND NUMBER OF VQA's BOARD OF DIRECTORS | 30.01.2013-2013/07 |

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[13UY0126-5/A2] Work Organization and Distribution

Date of Publication: 30/01/2013 Rev. No: 00

**ANNEXES**

**ANNEX 1: Information over Recommended Training for the Qualification Unit**

**Content of Training:**

1. Training needs analysis
2. Effective communication techniques
3. Ability to control
4. Machine tech knowledge
5. Planning and organization techniques
6. Problem solving / decision making techniques
7. Basic knowledge of management
8. Time management

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[13UY0126-5/A3] Under Wear Pattern Making Date of Publication: 30/01/2013 Rev. No: 00

[13UY0125-5/A3] UNDERWEAR PATTERN MAKING  
QUALIFICATION UNIT

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| 1 | NAME OF THE QUALIFICATION UNIT | Underwear Pattern Making |
| 2 | REFERENCE CODE | 13UY0126-5/A3 |
| 3 | LEVEL | 5 |
| 4 | CREDIT VALUE | - |
| 5 | A) DATE OF PUBLICATION | 30.01.2013 |
| B) REVISION NO | 00 |
| C) REVISION DATE | - |
| 6 | OCCUPATIONAL STANDARD FORMING THE BASIS FOR THE QUALIFICATION UNIT | |
| Underwear Pattern Maker (Level 5) National Qualification Standard 10UMS0053-5 | | |
| 7 | LEARNING OUTCOMES | |
| **Learning Outcome 1**: Prepares the datasheet    Performance Criteria:  1.1: Technically analyzes the pattern to be drawn.  1.2: Analyzes drawing form and features for the sample or pattern drawing.  1.3: Analyzes the stitch and trinketry specifications for the sample or pattern drawing. 1.4: Checks width-length measurement points and codes on the technical drawing in accordance  with the sample or pattern drawings.  1.5: Prepares pattern measurement table accordingly.  1.6: Checks material information card.    Learning Outcome 2: Prepares the patterns of modelled underwear items.  Performance Criteria:  2.1: Chooses preparation method.  2.2: Checks pattern measures.  2.3: Prepares base pattern.  2.4: Applies the pattern on the base in line with the datasheet, sample or measurement table.  2.5: Writes necessary information, symbol and marks on the modelled pattern pieces.  **Context** :  2: Underwear products: Women's, men's, children's pants; panty hose; men's and children's boxer; women's, men's and children's undershirt/undervest; women's, men's, children's body; women's bra; garter; women's, children's tights; women's, men's, children's pyjamas; women's peignoir; men's robe-de-chambre; women's corset; underskirt; women's slip; women's, men's, children's swimsuit; oversize; etc.  2.1: Product measurement table, cutting method, drapery, ready-made pattern use method, sewn product measure use method.  2.4: The pattern can be applied either manually or by PC.  2.5: Such as waist and cuff adjustment    Learning Outcome 3: Prepares the template.    Performance Criteria:  3.1: Determines the template type in line with the pattern and sewing style choice. | | |

[13UY0126-5/A3] Under Wear Pattern Making

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| **3.2:**  Determines seam allowance depending on the pattern and sewing style choice.  **3.3:**  Determines necessary allowances depending on the pattern and sewing style choice..  **3.4:**  Marks seam allowance on the pattern.  **3.5:** Writes necessary information, symbol and marks on the pattern.  **Context:**  **3.1:** Cut the template, fold/iron template, marking template, regular template, sewing template  **3.3:** Such as seam, iron and shrinkage allowances  **3.4 -3.5:** Templates can be prepared both manually or by PC.  **3.4 -3.5:** Templates can be prepared both manually or by PC.  **Learning Outcome 4: Prepares grading pattern**  **Performance Criteria:**  **4.1:** Prepares grading size measurement table in accordance with the information obtained from the concerning unit.  **4.2:** Calculates measurement differences between sizes.  **4.3:** Marks parts to be graded on the pattern.  **4.4:** Determines grading rates.  **4.5:** Prepares the graded pattern.  **4.6:** Writes down necessary information and marks on the pattern.  **Context:**  **4:** The candidate can follow all steps or have assistants followed and checks the compliance in line with the company structure.  **4.4:** According to measurement table and pattern  **4.5:** The pattern can be graded either manually or by PC.  **4.6:** Such as pattern name, size information, cut number, warp yarn etc | |
| Learning Outcome 5: Checks the spread layout plan | |
| **Performance Criteria:**  **5.1:** Checks spread layout plan in line with the technical features of the cloth.  **5.2:** Checks spread layout plan for production cut number and assortment choice.  **5.3:** Checks pattern number and sizes.  **5.4:** Checks spread throughput.  **5.5:** Checks spread layout notes.  **Context:**  **5.1:** Cloth’s width, pile, pattern design and shrinkage **5.5:** Spreading, assortment, width etc | |
| **8** | ASSESSMENT |
| **8 a)**  **Theoretical Examination** | |
| Multiple-choice question system is used. It includes 20 questions at minimum. Each question has equal points and evaluated with an answer key. Wrong answers are disregarded and only correct answers are taken into account for the evaluation. Candidate must score minimum 70/100 points to pass the exam. Each question is 1-1.5 minutes. Closed book system is used throughout the examination. Theoretical questions meet all the determined performance criteria. | |

[13UY0126-5/A3] Under Wear Pattern Making

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| **8 b)**  **Performance Based Examination** | | |
| In order for candidates to succeed, they need to meet the minimum performance criteria and score at least 80/100 points in total.  Performance based examination is expected to be completed in given time. Depending on the candidate’s choice, performance exam for Unit A2 can be completed both in written or by PC.  A ready-made garment item is selected from the product groups for which the Underwear Patternmaker (Level 5) is available and a performance based exam is carried out for assessing the A3 qualification unit, which is among the duties of underwear patternmaker. | | |
| **8 c)**  **Other Conditions Related to Assessment** | | |
| - | | |
| **9** | QUALIFICATION DEVELOPMENT INSTITUTION(S) | Istanbul Textile and Apparel Exporter |
| **10** | SECTOR COMMITTEE TO VERIFY QUALIFICATION | VQA Textile, Garments, Leather Sector  Committee |
| **11** | APPROVALDATE AND NUMBER OF VQA's BOARD OF DIRECTORS | 30.01.2013-2013/07 |

[13UY0126-5/A3] Underwear Pattern Making

Date of Publication: 30/01/2013 Rev. No: 00

ANNEXES

**ANNEX 1**: Information on Recommended Training for the Qualification Unit

**To be successful, the candidates are recommended to**:

* Be experienced and knowledgeable about "Underwear Pattern Making" in ready-made clothing sector,
* Graduated from a formal or non-formal educational institution in Pattern Making,
* Physically fit to work in the professional area.

**Content of Training:**

1. Accessories knowledge
2. Knowledge about and ability to use main and auxiliary materials
3. Knowledge of preparing patterns using computer
4. Sewing knowledge
5. Recognizes and uses sewing machines
6. Knowledge of ergonomics
7. Women's, men's & children's anatomy knowledge
8. Women's, men's & children's body size knowledge

* Bra size measures
* Women's, men's & children's size standards

1. Women's, men's & children's underwear knowledge
2. Pattern knowledge

* Women's, men's, children's underwear base pattern preparation
* Women's, men's, children's underwear pattern preparation
* Template preparations
* Grading (Cup grading knowledge for bra)

1. Professional drawing skills
2. Knowledge of professional terminology
3. Professional knowledge of mathematics
4. Fashion knowledge
5. Spreading plan preparations
6. Knowledge of colors
7. Technical drawing skills
8. Textile surface knowledge
9. Interlining knowledge

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13UY0126-5/A4 Underwear Sample Preparation Date of Publication: 30/01/2013 Rev. No: 00

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[13UY0125-5/A4] WOMEN'S CLOTHING SAMPLE   
PREPERATION QUALIFICATION UNIT

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| **1** | | NAME OF THE QUALIFICATION UNIT | Underwear Sample Preparation and Control |
| **2** | | REFERENCE CODE | 13UY0126-5/A4 |
| **3** | | LEVEL | 5 |
| **4** | | CREDIT VALUE | - |
| **5** | | **A)** DATE OF PUBLICATION | 30.01.2013 |
| **B)** REVISION NO | 00 |
| **C)** REVISION DATE | - |
| **6** | | OCCUPATIONAL STANDARD FORMING THE BASIS FOR THE QUALIFICATION UNIT | |
| Underwear Pattern Maker (Level 5) National Qualification Standard 10UMS0053-5 | | | |
| **7** | | LEARNING OUTCOMES | |
| Learning Outcome 1: Completes material check for sample production**.** | | | |
| Performance Criteria:  1.1: Checks datasheet and material information card conformity of the base material.  1.2: Checks datasheet and material feature conformity of the auxiliary material and accessories. | | | |
| Learning Outcome 2: Checks whether the underwear sample is cut correctly. | | | |
| Performance Criteria:  2.1: Checks if materials such as the cloth, lining, interlining etc. are cut according to the pattern.  2.2: Checks base and auxiliary piece cuts in line with the datasheet/sample. | | | |
| Learning Outcome 3: Checks the sewing of underwear sample**.** | | | |
|  | **Performance Criteria:**  **3.1:** Checks datasheet and material feature conformity of the pieces.  **3.2:** Checks if the sewing technique conforms the pattern and cloth.  **3.3:** Checks sample sewing technique in accordance with the datasheet.  **3.4:** Checks the competence of the sample sewing.  **3.5:** Checks sample yarn color in accordance with the information card and  datasheet.  **3.6:** Checks sample accessories and auxiliary material in line with the datasheet and  information card.  **3.7:** Checks sample ironing.  **3.8:** Checks measurement form conformity.  **3.9:** Checks information on the sample information card.  **Context:**  **3.7:** If the garment is washable, pre-wash and after-wash measures are controlled **3.8:** Size, connection, client and other information (collection sample, size set, production sample etc.) | | |
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| Learning Outcome 4: Rehearses on live/dummy female, male, kids  **Performance Criteria:**  **4.1:** Puts the sample on a dummy/model having the correct size.  **4.2:** Checks rope, play and fitting of the sample bearing the sample specifications  and datasheet information in mind.  **4.3:** Checks base and auxiliary material harmony along with the fitting on the model  in line with the pattern specifications and datasheet.  **4.4:** Checks sample overview and ironing.  **4.5:** Marks parts to be adjusted on the sample.  **4.6:** Marks faulty parts of the sample and make necessary changes on the pattern.  **Context:**  **4.3**: Materials such as lining, trinketry, accessories etc.  **Learning Outcome 5: Checks the sewing instruction.**  **Performance Criteria:**  **5.1:** Checks the machinery equipment and sewing techniques in line with datasheet.  **5.2:** Checks yarn and needle specifications of the instructions according to company, client standards and datasheet.  **5.3:** Checks trinketry, accessory and tag specifications along with the sewing method described by the sewing instructions for the datasheet.  **5.4:** Checks auxiliary material information specified in the sewing instructions  for the datasheet  **5.5:** Checks specified sewing allowances in line with the datasheet and machine features. | |
| **8** | **ASSESSMENT** |
| **8 a)**  **Theoretical Examination** | |
| Multiple-choice question system is used. Unit A4 exam is composed of 10 questions at least. Each question has equal points and evaluated with an answer key. Wrong answers are disregarded and only the correct answers are taken into account for the evaluation. The candidate shall score at least 70/100 points to pass the examination. Each question is 1 – 1.5 minutes. The exam is performed using the closed book system. Theoretical questions meet all the determined performance criteria. | |
| **8 b) Performance Based Examination** | |
| Technical performance test guide is prepared to assess skill threshold. In order for candidates  to succeed, they need to meet the minimum performance criteria and get at least 80/100 points in total. The applied performance test is expected to complete in given time. Depending on candidate choice, same parts of unit A4 performance test can be completed by PC  A ready-made garment item is selected from the product groups for which the Underwear Patternmaker (Level 5) is available and a performance based exam is carried out for assessing the A4 qualification unit, which is among the duties of Underwear Pattern Maker (Level 5). | |
| **8 c)**  **Other Conditions Concerning Assessment** | |
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13UY0126-5/A4 Underwear Sample Preparation Date of Publication: 30/01/2013 Rev. No: 00

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| 9 | QUALIFICATION DEVELOPMENT INSTITUTION(S) | ISTANBUL TEXTILE AND APPAREL EXPORTER ASSOCIATIONS (ITKIB) |
| 10 | SECTOR COMMITTEE TO VERIFY QUALIFICATION | VQA Textile, Garments, Leather Sector  Committee |
| 11 | APPROVALDATE AND NUMBER OF VQA's BOARD OF DIRECTORS | 30.01.2013-2013/07 |

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13UY0126-5/A4 Underwear Sample Preparation Date of Publication: 30/01/2013 Rev. No: 00

and Control

ANNEXES

**ANNEX 1**: Information on Recommended Training for the Qualification Unit   
In order for candidates to be successful in their field, they are recommended to be:

* Experienced and informed about "Underwear Pattern Making" in ready-made clothing sector,
* Graduated from a formal or non-formal educational institution in Pattern Making,
* Physically fit to work in their professional area.

**Content of Training:**

1. Knowledge of sewing machine
2. Knowledge of sewing
3. Knowledge of ergonomics
4. Women's, men's & children's under garment knowledge
5. Women's, men's & children's macroscopic anatomy knowledge
6. Women's, men's & children's size knowledge

* Bra size measures
* Women's, men's & children's size standards
* Women's, men's & children's oversize measures

1. Quality control knowledge
2. Professional term knowledge
3. Knowledge over materials to be used
4. Rehearsal knowledge
5. Color knowledge
6. Trinket knowledge
7. Textile surface knowledge
8. Basic cutting knowledge
9. Product reliability knowledge
10. Product measurement knowledge

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QUALIFICATION ANNEXES

ANNEX 1: Qualification Units

13UY0126-5/A1 Quality, Environment, Occupational Health and Safety  
13UY0126-5/A2 Work Organization and Distribution  
13UY0126-5/A3 Underwear Pattern Making

13UY0126-5/A4 Underwear Sample Preparation and Control

ANNEX 2: Terms, Symbols and Abbreviations

Accessory: Any item or trinketry used to complement the visual quality  
 of a garment,

Base Material: Main material used for a product,

Base Pattern: Base patter on which any model is applied,

Connection point: Marks and points showing where sewing connects,

Seam Allowance: The area between the edge and the stitching line,

Drape: The way in which a garment or fabric hangs,

ISCO: The International Standard Classification of Occupations,

Bra (Cup) Size: Bra sizes usually consist of a number, indicating a band size around the woman's torso, and one or more letters indicating the breast cup size. Measurement differences are divide into groups and each group is indicated by a letter. Today, sizes are expressed as AA, A, B, C, D, DD. B is accepted as standard cup.

Material Information Card: Information cards covering visual samples of base and auxiliary materials,  
 material content information, amount of use etc.   
Macroscopic Anatomy: The study of the structure of the body and its parts without the use of a microscope,

NACE: Statistical Classification of Economic Activities in the European Community,

Sample: An example of a garment before mass produced,

Measurement Table: A table covering all measurement and size information and all parts to be controlled   
on garment to be produced,

Spreading Plan: Layout plan prepared bearing order assortment, cloth width and length,

Risk: Potential of losing something of value, weighed against the potential to gain something of value.   
Grading: It is when a pattern is taken and made to be smaller or larger,

Trinketry: Any item used to visually enhance the garment visually,

Template: A shaped piece of rigid material used as a pattern for cutting all allowances, marks and notes on,

Danger: A source or an instance of risk, peril or injury at work,

Datasheet: A written document with visual elements showing base and auxiliary   
materials, measurement tables and points along with technical drawings for garments,

Technical Drawing: A precise and detailed drawing of a garment showing all pattern, sewing,   
accessory and color features,

Textile Surfaces: Various surfaces made of yarn, fibers or a combination of yarn and fibers in crafts,

Interlining: An extra lining between the outer fabric and regular lining of a garment,

Auxiliary Material: Materials used for production excluding the base material,

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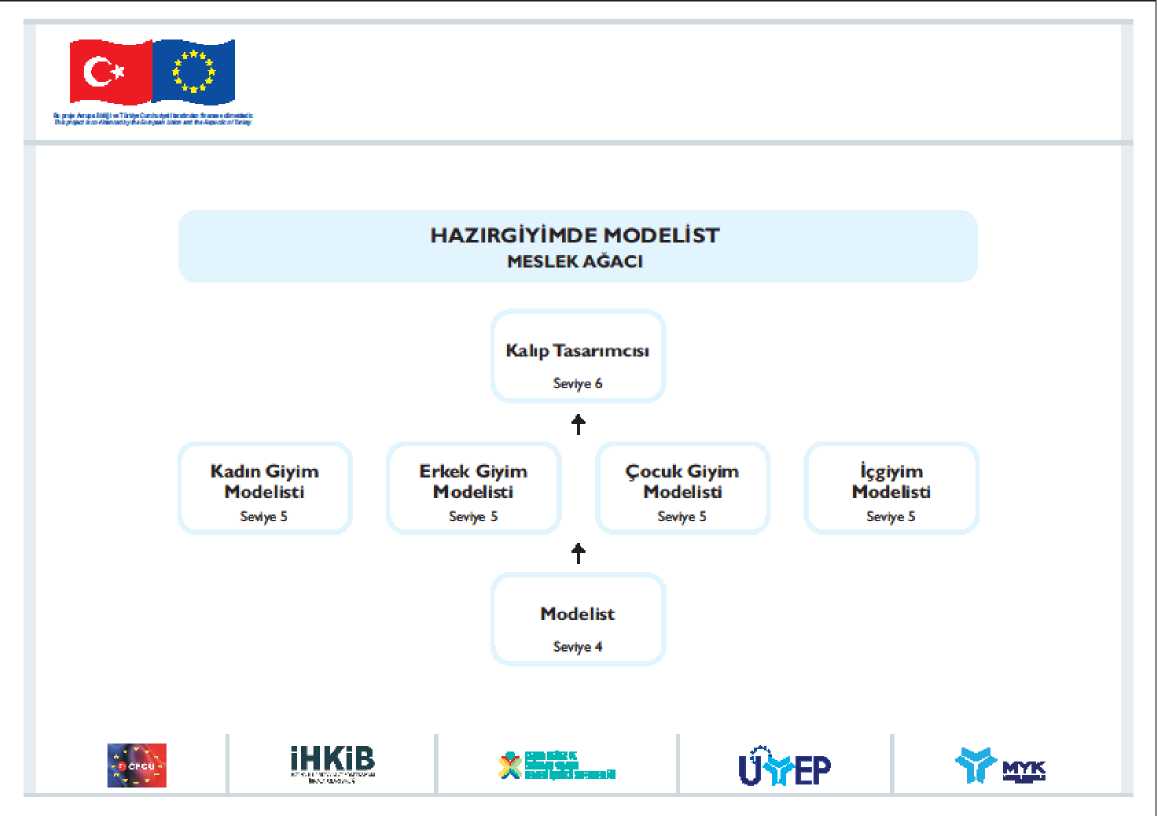
NATIONAL QUALIFICATION

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ANNEX 3: External and Internal Transfers



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Annex 4: Assessor Criteria

Date of Publication: 30/01/2013 Rev. No: 00

**Assessors are expected to**:

* have graduated from an associate degree program in the field and worked in a formal or non-formal educational institution under MEB or YÖK for at least 5 years,
* Have worked in ready-made clothing sector for 5 years at least and graduated from  
  an associate degree program in the field,
* Have worked as Underwear Pattern Maker (Level 5) for 7 years at least and graduated from an associate degree program in the field.

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