

## Higher National Unit Specification

### General information for centres

**Unit title:** Garment Construction Techniques: An Introduction

**Unit code:** F18X 33

**Unit purpose:** This Unit is designed to enable students to develop basic pattern construction techniques and clothing production skills. It is written as an introductory Unit and aimed at those studying or working in the clothing or fashion industry.

On completion of the Unit the candidate should be able to:

- 1 Measure and select appropriate measurements to meet a given specification.
- 2 Use pattern cutting equipment to draft a basic block to meet a given specification.
- 3 Produce a pattern manipulation to meet a given style specification.
- 4 Produce a production pattern to meet a given style specification.
- 5 Use industrial sewing, finishing and pressing equipment to produce manufacturing samples.
- 6 Produce a sample garment.

**Credit points and level:** 2 HN Credits at SCQF level 6: (16 SCQF credit points at SCQF level 6\*)

*\*SCQF credit points are used to allocate credit to qualifications in the Scottish Credit and Qualifications Framework (SCQF). Each qualification in the Framework is allocated a number of SCQF credit points at an SCQF level. There are 12 SCQF levels, ranging from Access 1 to Doctorates.*

**Recommended prior knowledge and skills:** Candidates do not require any prior knowledge of either sewing production skills or pattern cutting.

**Core Skills:** There are opportunities to develop the Core Skill of Problem Solving and Numeracy at SCQF level 5 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.

**Context for delivery:** If this Unit is delivered as part of a Group Award, it is recommended that it should be taught and assessed within the subject area of the Group Award to which it contributes.

**Assessment:** Assessment will be holistic through practical assignments which will involve the production of a basic block, a production pattern, a folder of samples and a sample garment.

## **Higher National Unit specification: statement of standards**

**Unit title:** Garment Construction Techniques: An Introduction

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The sections of the Unit stating the Outcomes, knowledge and/or skills, and Evidence Requirements are mandatory.

Where evidence for Outcomes is assessed on a sample basis, the whole of the content listed in the knowledge and/or skills section must be taught and available for assessment. Candidates should not know in advance the items on which they will be assessed and different items should be sampled on each assessment occasion.

### **Outcome 1**

Measure and select appropriate measurements to meet a given specification

#### **Knowledge and/or skills**

- ◆ Human form and dummy measurement
- ◆ Direct and indirect measures
- ◆ Size charts

#### **Evidence Requirements**

Candidates will need to provide evidence to demonstrate their knowledge and/or skills by showing that they can:

- ◆ produce accurate measurements for given garment types
- ◆ calculate working scales from the direct measures for two given garment types for four size variations and calculate indirect measures to five given scales
- ◆ read measurements from a size chart for two given garment types

#### **Assessment guidelines**

A practical assignment such as measuring a tailor's dummy or human body for given garments could be used to assess accuracy of measuring techniques used by the candidate.

Candidates could accurately calculate working scales based on given direct measures for two selected garment types and four size variations. Indirect measures could then be calculated for 1/2, 1/4, 1/5, 1/10 and 1/12th scale. Garment types could be a skirt, blouse, dress or trousers.

Written or oral evidence could be provided by the candidate to ensure correct interpretation of size charts for two given garment types.

## **Higher National Unit specification: statement of standards (cont)**

**Unit title:** Garment Construction Techniques: An Introduction

### **Outcome 2**

Use pattern cutting equipment to draft a basic block to meet a given specification

#### **Knowledge and/or skills**

- ◆ Pattern cutting tools and equipment
- ◆ Basic block drafting
- ◆ Basic block production
- ◆ Block information requirements

#### **Evidence Requirements**

Candidates should provide evidence to demonstrate their knowledge and skills by showing that they can produce an accurately drafted basic block which is accurate to the given specification. The finished block should be checked against the master block and should be accurate to 0.5cm.

#### **Assessment guidelines**

The candidate could be asked to create a block to match the measurements taken in Outcome 1.

### **Outcome 3**

Produce a pattern manipulation to meet a given style specification

#### **Knowledge and/or skills**

- ◆ Cutting and spreading techniques
- ◆ Dart manipulation techniques

#### **Evidence Requirements**

Candidates should provide evidence to demonstrate their knowledge and skills by showing that they can manipulate a basic block using one of the above techniques to produce a given style specification. This should be completed in both miniature scale and full scale. The manipulation should meet the given specification.

#### **Assessment guidelines**

It is envisaged that the candidate could manipulate the basic block created for Outcome 2. The manipulation should be carried out accurately to the given style specifications.

## **Higher National Unit specification: statement of standards (cont)**

**Unit title:** Garment Construction Techniques: An Introduction

### **Outcome 4**

Produce a production pattern to meet a given style specification

#### **Knowledge and/or skills**

- ◆ Production pattern techniques
- ◆ Seam allowances
- ◆ Production information requirements

#### **Evidence Requirements**

Candidates should provide evidence to demonstrate their knowledge and skills by showing that they can accurately produce a full scale and miniature scale production pattern manipulation using correct and appropriate seam allowances. The pattern should and contain correct production information such as grain lines, notches, drill hole and written information. The pattern should be accurate to 0.5cm.

#### **Assessment guidelines**

The candidate could use the manipulation from Outcome 3 to produce the completed production pattern.

### **Outcome 5**

Use industrial sewing, finishing and pressing equipment to produce manufacturing samples

#### **Knowledge and/or skills**

- ◆ Machines, attachments and work aids
- ◆ Stitch formations
- ◆ Stitch length
- ◆ Seam types
- ◆ Basic garment finishes

#### **Evidence Requirements**

Candidates should provide evidence to demonstrate their knowledge and skills by showing that they can produce stitch and seam samples to cover a range of machinery and equipment to meet given specifications.

A minimum of three stitch, three seam types and three finishing technique samples should be included. Satisfactory performance will be demonstrated by candidates producing these samples within a given and appropriate tolerance.

An appropriate observation schedule should be devised by the centre to match with the stitch, seam and finishing techniques in the specification. All samples should be produced to commercially acceptable standard.

## **Higher National Unit specification: statement of standards (cont)**

**Unit title:** Garment Construction Techniques: An Introduction

### **Assessment guidelines**

The candidate should produce a portfolio of samples so that a minimum of three stitch, three seam and three finishing techniques are produced to match given specifications, demonstrating the candidate's ability to use a variety of garment manufacturing machinery and equipment. Candidate performance could be recorded on an observation schedule.

### **Outcome 6**

Produce a sample garment

### **Knowledge and/or skills**

- ◆ Lay planning
- ◆ Operational breakdown

### **Evidence Requirements**

Candidates will need to provide evidence to demonstrate their knowledge and skills by showing that they can: produce a basic sample garment following an operational breakdown to meet a given specification. Satisfactory performance will be demonstrated by candidates using seam allowances within a given and appropriate tolerance.

Candidate performance will be recorded on an appropriate observation schedule which should be devised by the centre to match with the garment and specification given.

Overall the garment should be produced to commercially acceptable standard.

### **Assessment guidelines**

The candidate could produce a basic garment from the pattern produced in Outcome 4, which should be completed to match a given specification, demonstrating the candidate's ability to use a variety of sewing, finishing and pressing equipment. This could be jointly assessed with Outcome 5 supported by a complementary portfolio of samples so that a minimum of three stitch, three finishing and three seam technique samples are produced overall.

## Administrative Information

<b>Unit code:</b>	F18X 33
<b>Unit title:</b>	Garment Construction Techniques: An Introduction
<b>Superclass category:</b>	JK
<b>Original date of publication:</b>	April 2007
<b>Version:</b>	02 (September 2013)

### History of Changes:

Version	Description of change	Date
02	The Evidence Requirements for Outcome 3 and Outcome 4 have been amended. 1/5 scale has been replaced with miniature scale.	03/09/13

**Source:** SQA

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## **Higher National Unit specification: support notes**

### **Unit title:** Garment Construction Techniques: An Introduction

This part of the Unit specification is offered as guidance. The support notes are not mandatory.

While the exact time allocated to this Unit is at the discretion of the centre, the notional design length is 80 hours.

### **Guidance on the content and context for this Unit**

This Unit is included as a mandatory Unit within the framework of the HND Fashion: Design and Production with Retail. This section is for guidance only and content should be chosen in accordance with current Fashion Trends.

The following information gives further clarification regarding the context in which the Outcomes and performance criteria are to be achieved.

**Equipment** — L square, Tailors square, Grade n' rule, pattern master, scale diagram square, pattern drill, pattern notcher, wooden awl, scissors, pencils, pens, paper, card, pattern hooks, pattern punch, tape measure.

**Tools and Equipment** — Lockstitch sewing machine, domestic machines, over locker, buttonholer, blind hemmer. vacuum tables and steam pressing equipment.

**Work aids** — edge guides, folders, zipper feet, compensating.

**Stitch formations** — lockstitch and over locking.

**Seam types** — lat seam, French seam, edge stitched, top stitched etc.

**Finishes** — hem, waistband.

### **Guidance on the delivery and assessment of this Unit**

**Outcomes 1–4 (It is suggested that a basic skirt or bodice block is drafted)**

#### **Outcome 1**

Tutor led discussion on the process of measuring and recording accurate measurements from the human form or tailors dummy followed by candidate practical assessment.

Discussion of direct and indirect measurements followed by student exercise on calculations of working scales.

Discussion and comparison on variations of size charts followed by candidate exercise on selecting appropriate measurements from given chart for block pattern.

## **Higher National Unit specification: support notes (cont)**

**Unit title:** Garment Construction Techniques: An Introduction

### **Outcome 2**

Tutor led discussion on pattern cutting tools and equipment explaining their uses.

Candidates follow a practical assignment on using the various pieces of equipment correctly. Tutor led discussion and demonstration of method of producing a basic block using the appropriate equipment and sequence of measurements. There should be discussions on the importance of specifications and consequences of failing to comply with a given specification. The importance of clearly identifying and labelling each component part of the block should be discussed.

Tutor led demonstration on producing a basic block from a draft pattern. Discussion on the information required to be recorded on the block pattern. Information required should include Block name, piece name, size, cutting instructions, notches.

### **Outcome 3**

Tutor led discussion and demonstration of swinging the dart and/or slashing and spreading to create a given style. The Style should reflect current trends. This should be completed in both miniature scale and full scale.

### **Outcome 4**

Tutor led discussion on seam allowances and their appropriate uses with regards to seam/ hem types, fabric and style variations. Candidate's complete a production pattern using appropriate seam and hem allowances and appropriate pattern information is recorded. The information should include style name, piece name, size, cutting instructions, grain lines, notches, balance marks.

### **Outcome 5 and 6 (It is suggested that the pattern produced in Outcome 4 should be used to produce the Outcome 6 garment)**

The teacher/lecturer/tutor should use handouts and practical demonstrations to show the candidates a range of sewing machine and pressing equipment and their uses. A variety of stitch types should be discussed and candidates should produce a minimum of three samples.

Basic seam and finishing processes should be discussed with a variety of samples available for viewing. Candidates should produce a minimum of three seam and three finishing samples. Centre may use the instruments of assessment which are considered by teacher/lecturer/tutor to be the most appropriate.

Tutor led discussion and demonstration on the variations of lay planning, (fabric widths, fabric type's i.e. one way designs, nap, bias etc). Discussion and demonstration on cutting and identifying cut garment pieces. Discussion on Operational breakdown and its use followed by Tutor giving individual help in the construction of garment — candidate must produce their own operational breakdown.

As well as producing what is required within the Outcomes, observation checklists should be devised to evidence the candidate's completion of the practical exercises.



## **Higher National Unit specification: support notes (cont)**

### **Unit title:** Garment Construction Techniques: An Introduction

The teacher/lecturer/tutor should use handouts and practical demonstrations to show the candidates a range of machine and hand sewing techniques for producing and trimming and finishing a garment in line with the given brief. Samples of all production, trimming and finishes techniques should be available.

#### ***Opportunities for developing Core Skills***

The candidate will have the opportunity to develop the Core Skills of Problem Solving and Numeracy at SCQF level 5.

Numeracy calculations will be used in Outcome 1 and 2 where the candidates will be required to measure, read from size charts and calculate working scales to devise a block which matches a given specification.

Problem Solving will be achieved by candidates working through production aspects for the given tasks and by selecting and using the correct machinery and techniques to complete these tasks in Outcomes 4–6. Additionally candidates will evaluate their work and amend in order to meet the quality standards required.

#### **Open learning**

This Unit is unlikely to be delivered by open learning because of the practical nature of the Unit and because students will need to have practical demonstrations to fully understand the process of creating and manipulating blocks and creating patterns. It is recommended that Unit should be undertaken by candidate with supervision to ensure correct use of equipment and machinery.

#### **Candidates with disabilities and/or additional support needs**

The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments, or considering alternative Outcomes for Units. Further advice can be found in the SQA document *Guidance on Assessment Arrangements for Candidates with Disabilities and/or Additional Support Needs* ([www.sqa.org.uk](http://www.sqa.org.uk)).

## **General information for candidates**

### **Unit title:** Garment Construction Techniques: An Introduction

In this Unit you will learn:

- ◆ To use a variety of pattern cutting equipment to produce in the first instance a basic block pattern and secondly a manipulated paper production pattern which you will use to manufacture a garment.
- ◆ To use a variety of sewing machinery and equipment to produce basic seam and finishing sample techniques to enable you to produce a basic garment such as a skirt, or a bodice.

You will produce a portfolio of samples incorporating a miniature scale basic block and a production pattern and three stitch, three seam and three finishing technique samples which will provide a record of your competence in producing these samples and also a source book for your future reference.

Outcomes are designed to develop your practical skills in the manufacture and production of individual garments. Your teacher/lecturer/tutor will demonstrate all techniques that you are required to use but you should expect to take a high degree of responsibility in the production and collation of all of your work. Guidance will be given on how to structure your folder of sample evidence.

All items produced will be used for assessment purposes.

In undertaking this Unit you will also develop Core Skills in Numeracy and Problem Solving.