

Higher National Unit specification

General information for centres

Unit title: Garment and Equipment Technology for the Fashion Industry

Unit code: F1PP 34

Unit purpose: The purpose of this Unit is to enable the candidate to operate a range of specialised industrial sewing machinery and equipment identifying their applications for use in the manufacturing process of a garment. The candidate will learn about various garment trimmings available their characteristics and application in the garment making process. This Unit is suitable for those studying fashion technology or those seeking employment or in employment in the fashion technology industry.

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

- 1 Describe garment trimmings, their characteristics and applications.
- 2 Operate and describe the use of specialist industrial sewing machinery and equipment.

Credit points and level: 1 HN credit at SCQF level 7: (8 SCQF credit points at SCQF level 7*)

**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: No prior experience is required but it would be advantageous if the candidate had sewing skills and experience using industrial sewing machinery and equipment to SCQF level 5 or have relevant industrial experience.

Core Skills: There are opportunities to develop the Core Skills of Problem Solving, Information Technology Working with Others and Communication to 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: The assessment for this Unit to cover all knowledge and skills detailed in each Outcome will be the completion of a comprehensive work folio by the candidate and the completion of a series of questions on the types of trimmings available and their applications. The folio should include all work samples, relevant operating and trimmings data. Observation checklists can be used to record the candidates progress and pro forma sample and information sheets could be provided.

Higher National Unit specification: statement of standards

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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

Describe garment trimmings, their characteristics and applications

Knowledge and/or Skills

- ◆ Types of trimmings
- ◆ Application of trimmings
- ◆ Trimmings functions

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and Skills by showing that they can produce a comprehensive work folio of trimming samples and correctly answer a minimum of 10 questions on the various types of trimmings used and their applications in the manufacture of garments.

Candidates must produce a minimum of two trimmings samples and complete a trimmings data sheet for each sample detailing:

- ◆ Type of trim
- ◆ Application
- ◆ Function
- ◆ Buttons
- ◆ Zips
- ◆ Threads
- ◆ Interlinings
- ◆ Tapes and Binding
- ◆ Elastics
- ◆ Fasteners
- ◆ Waist banding

Assessment Guidelines

The assessment for this Outcome could be asking the candidate to provide a folio of trimming samples and the completion of 10 short answer questions on the use and application of various trimmings. Candidates could be provided with a pro forma for completion of sample information sheets.

Higher National Unit specification: statement of standards (cont)

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Outcome 2

Operate and describe the use of specialist industrial sewing machinery and equipment

Knowledge and/or Skills

- ◆ Specialist sewing machinery
- ◆ Pressing and fusing equipment
- ◆ Fastening equipment
- ◆ Needle and thread types
- ◆ Fault analysis and correction
- ◆ Health and Safety procedures

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and Skills by showing that they can produce a comprehensive work folio of sewing samples and accompanying details of operating data and areas of application.

The samples, sample information sheets and resulting work folio should be completed under open-book supervised conditions. Each sample, where appropriate, must be trimmed and pressed to ensure a good standard of presentation. All samples should show correct settings and tensions and use of appropriate thread and needle combinations.

Information to be included on the sample information sheets must detail where applicable:

- ◆ Machine or equipment type used
- ◆ Type of trimming
- ◆ Areas of application
- ◆ Basic machine or equipment settings
- ◆ Needle and thread combinations
- ◆ Stitch types produced
- ◆ Thread usage
- ◆ Fault analysis and correction
- ◆ Health and Safety details for safe operation of equipment or machinery

Candidates must produce a minimum of one sample and sample information sheet for a minimum of 15 machines or equipment from the list detailed below:

- ◆ Single needle lockstitch
- ◆ Chainstitch
- ◆ three thread overlocker
- ◆ four thread overlocker
- ◆ five thread overlocker
- ◆ Basting machine
- ◆ Twin needle
- ◆ Bar tack machine
- ◆ Button sew machine

Higher National Unit specification: statement of standards (cont)

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- ◆ Buttonhole machine
- ◆ Stud and press fastener
- ◆ Fabric folder
- ◆ One sided presser foot
- ◆ Invisible zipper foot
- ◆ Compensating presser foot
- ◆ Ruching presser foot
- ◆ Fusing press
- ◆ Pressing equipment
- ◆ Covered button press

Assessment Guidelines

The assessment for this Outcome to cover all Knowledge and Skills detailed will be the completion of a comprehensive work folio by the candidate. This folio should include all work samples, relevant operating and trimmings data. Candidates could be provided with a pro forma for information sheets.

The samples could be presented in an A4 sized folio and all information on operating data and areas of application will be presented on sample information sheets produced by the candidate.

Administrative Information

Unit code: F1PP 34

Unit title: Garment and Equipment Technology for the Fashion Industry

Superclass category: WH

Original date of publication: June 2007

Version: 01

History of changes:

Version	Description of change	Date

Source: SQA

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Higher National Unit specification: support notes

Unit title: Garment and Equipment Technology for the Fashion Industry

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 40 hours.

Guidance on the content and context for this Unit

This Unit is a mandatory Unit in the HNC/HND Fashion Technology and Manufacture with Design.

In the manufacturing process of a garment to achieve optimum standards of efficiency and quality in the sewing and finishing processes the development of specialised machinery and equipment has grown extensively. This has enabled in many cases the manufacturer to de skill the task and still meet targets in terms of output and quality whilst reducing the labour cost, all of these considerations are essential in today's very competitive fashion industry.

To enable candidates to experience some of these specialist machines and equipment they should have the opportunity to operate machinery such as:

- ◆ UBTT Lockstitch
- ◆ Over lockers 5/4 and three thread
- ◆ Button Sewers
- ◆ Button Holes
- ◆ Bar Tack
- ◆ Blind stitch
- ◆ Twin Needle
- ◆ Chain stitch
- ◆ Hoffman presses
- ◆ Fusing Equipment
- ◆ Steam Finishing Equipment
- ◆ Fastening equipment
- ◆ Relevant attachments

When the candidate is operating this specialist machinery and equipment they should be made aware of the various components which are used with individual machine to achieve the required Outcome, these components are thread and needle combinations essential for the correct operation of the machine/equipment. When faults do occur in the final product the candidate will be made aware of the cause and a process in which to remedy this fault when it occurs.

Higher National Unit specification: support notes (cont)

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Candidates should also be made aware of the various types of garment trimmings available detailing their characteristics and application in the manufacturing process. Trimming which could be shown to the candidates would be:

- ◆ Linings
- ◆ Interlinings
- ◆ Fasteners
- ◆ Tapes and Binding
- ◆ Threads
- ◆ Waist banding

At all times during the operation of the specialist machinery/equipment the candidate must be made fully aware of the Health and Safety measures applicable for the safe operation of each piece of machinery/equipment.

Guidance on the delivery and assessment of this Unit

To enable the candidate to obtain the most from this Unit they must have as much hands on experience in operating the specialist machinery/equipment as possible. To make this possible in a safe environment each piece of specialist machinery/equipment should be demonstrated by the lecturer, detailing all the relevant working parts, provide information on thread and needle combinations and detail the benefits and application of the machinery/equipment in the manufacturing of a garment. During these demonstrations the lecturer will be emphasising all Health and Safety aspects relating to the safe operation of the piece of machinery/equipment.

On completion of these demonstrations candidates will have the opportunity to try out the machinery/equipment under general supervision, this will allow the candidate to become confident and proficient in their use and also enable them to create samples for their work folio. To provide candidates with the required knowledge and understanding of the various trimmings available lectures will take place supplemented with samples of various trimmings enabling the candidate to examine them and become familiar with what they actually look like and see in what applications they could be used and the reasons why.

The candidate will source samples of these trimmings and add them to their folio creating a reference book, which will be beneficial in the final projects stage of the HNC/HND or in a possible career in Technical Design, Quality and Garment Technology. A series of questions could be completed by the candidate to show their knowledge and skills for the types of trimmings available and their application in the manufacturing of a garment.

The inclusion of a candidate's pack containing relevant data and reference information could be supplied together with reference book and industry related software, which will enable the candidate to add depth and quality to their folio. Information of machine and trimmings supplier's websites can be given allowing the candidate to access and broaden their knowledge and understanding. The use of candidate checklists can be used throughout the duration of this Unit to record their progress and build up of skills and knowledge. The final folio can be used as the final instrument of assessment reflecting the continued development of learning and skills building for this particular subject area.

Higher National Unit specification: support notes (cont)

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Opportunities for developing Core Skills

Candidates will develop the Core Skills in Problem Solving by collating information on machine types, trimmings and their applications, sorting this information into a comprehensive folio of samples.

Information Technology will be developed through candidates developing their skills in specialist Fashion Technology software and in the collating and sorting of this information and they will also have access to various computer applications to present and personalise their own work folios.

The Core Skill of Working with Others and Communications will be evidenced by the candidate discussing the planning and sequencing the use of limited specialist resources and equipment with fellow candidates in the completion of the sample folio.

Open learning

Due to the very practical hands on delivery of this Unit on specialised industrial machinery/equipment it is felt that this Unit is not suitable for open learning

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).

General information for candidates

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In this Unit you will have the opportunity to operate a range of specialised industrial machinery/equipment, which are all designed to simplify a job making it easier and quicker to complete and produce a final Outcome with a quality finish. It is the use of this specialised industrial machinery/equipment that gives the garments made for the high street retailers that professional look and finish. Not only will you operate these machines and equipment you will be made aware of the needles, threads and other component parts, which are essential for their proper functioning.

In all garments/trimmings can take many shapes and forms, they can be used for a variety of reasons/practicality or purely decorative. You will learn about the different types of trimmings available, their characteristics and their application in garments for manufacture.

Throughout this Unit all your completed work will be collated and presented in a comprehensive work folio which will provide you with a first class reference book for use at a later stage in your course or chosen career path. This Unit would be beneficial for candidates wishing to pursue a career in the areas of Technical Design, Quality and Garment Technology. This comprehensive folio will be used as the instrument of assessment for this Unit. During the duration of this Unit you will be able to develop the Core Skills of Problem Solving; Information Technology and Working with Others and Communications to SCQF level 5.