



Qualification Guidance

SEG Awards Level 3 Certificate in
Apparel Manufacturing Technology

Wales - C00/0122/9

About Us

At the Skills and Education Group Awards we continually invest in high quality qualifications, assessments and services for our chosen sectors. As a UK leading sector specialist we continue to support employers and skills providers to enable individuals to achieve the skills and knowledge needed to raise professional standards across our sectors.

Skills and Education Group Awards has an on-line registration system to help customers register learners on its qualifications, units and exams. In addition it provides features to view exam results, invoices, mark sheets and other information about learners already registered.

The system is accessed via a web browser by connecting to our secure website using a username and password: [Skills and Education Group Awards Secure Login](#)

Sources of Additional Information

The Skills and Education Group Awards website www.skillsandeducationgroupawards.co.uk provides access to a wide variety of information.

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7.4	July 2022	Addition of Welsh regulation
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7.6	July 2023	Removal of Ofqual and CCEA regulation
7.7	December 2024	Updated UKFT logo in header
7.8	October 2025	Updated review date to 31/12/2028

This guide should be read in conjunction with the Indicative Content document **version 1.1** which is available on our secure website using the link above.

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Introduction

The majority of fashion and textiles companies now manufacture overseas, with a technical base in the UK focusing on design, pattern production and sampling. This qualification reflects the technical skills needed within these areas and is designed to enhance and develop the skills and knowledge of those who are involved in pattern and garment production, ensuring their skills are recognised and valued throughout the sector.

This qualification is aimed at garment technologists, pattern and grading technologists, sample technicians; handcraft garment makers, and individuals whose role is expanding into new technical and managerial areas.

This qualification will be put forward for inclusion as part of the Fashion and Textiles Apprenticeship Framework. For the status of this qualification within Apprenticeship Framework check the relevant web site.

Pre-requisites

There are no formal entry requirements, but the learner will need to be in employment as this qualification needs to be delivered and assessed in the work place.

Skills and Education Group Awards expects approved centres to recruit with integrity on the basis of a trainee's ability to contribute to and successfully complete all the requirements of a unit(s) or the full qualification.

Aims

The SEG Awards Level 3 Certificate in Apparel Manufacturing Technology (NVQ) aims to enhance and develop the skills and knowledge of those who are involved in pattern and garment production, ensuring their skills are recognised and valued throughout the sector.

Target Group

This qualification is designed for those learners, aged 16+, who are garment technologists, pattern and grading technologists, sample technicians, handcraft garment makers, and individuals whose role is expanding into new technical and managerial areas.

Qualification Structure and Rules of Combination

Rules of Combination: Level 3 Certificate in Apparel Manufacturing Technology

Learners must achieve a minimum of 33 credits from one pathway. This must include 13 credit from the mandatory units. Learners must achieve a minimum of 20 credits at Level 3.

Unit	Unit Number	Level	Credit Value	GL
Mandatory Units				
Health, safety and security at work	K/502/1072	2	3	20
Maintaining the work area for manufacturing sewn products	T/502/1074	2	5	30
Maintain the quality of production working with textiles, leather and materials	T/502/1074	2	5	30
Garment Technologist Pathway				
Identify and agree the construction of garments to be produced	J/502/0866	3	5	30
Monitor compliance with requirements in garment construction	L/502/0867	3	5	30
Create and maintain technical documents and records in garment construction	D/502/0873	3	5	30
Contribute to the production of outsourced apparel products	T/502/0877	3	5	30
Investigate markets, materials and styles	R/502/0899	3	5	30
Produce final apparel product specification	A/502/0900	3	5	30
Assess customer requirements and take measurements	F/502/0901	3	5	30
Plan apparel production schedule	J/502/0902	3	5	30
Illustrate a fashion design concept using CAD	T/503/5847	3	5	30
Transfer product patterns into CAD systems	H/503/5830	3	5	30
Create product specifications using CAD/CAM	A/503/5848	3	5	30
Product lifecycle management using a CAD system	F/503/5849	3	5	30
Pattern and Grading Technologist Pathway				
Investigate markets, materials and styles	R/502/0899	3	5	30
Produce final apparel product specification	A/502/0900	3	5	30
Assess customer requirements and take measurements	F/502/0901	3	5	30

Plan apparel production schedule	J/502/0902	3	5	30
Transfer product patterns into CAD systems	H/503/5830	3	5	30
Assess and develop given apparel designs	A/502/0878	3	5	30
Produce block and graded patterns for apparel products	F/502/0879	3	5	30
Produce prototype / sample patterns and assess for fit	T/502/0880	3	5	30
Produce lay plans for apparel products	A/502/0881	3	5	30
Make up apparel products from patterns	F/502/0882	3	5	30
Product pattern development using a CAD system	K/503/5845	3	5	30
Pattern grading using a CAD system	M/503/5832	3	5	30
Lay planning using a CAD system	R/503/5841	3	5	30
Handcraft Garment Maker Pathway				
Produce final apparel product specification	A/502/0900	3	5	30
Assess customer requirements and take measurements	F/502/0901	3	5	30
Plan apparel production schedule	J/502/0902	3	5	30
Illustrate a fashion design concept using CAD	T/503/5847	3	5	30
Transfer product patterns into CAD systems	H/503/5830	3	5	30
Create product specifications using CAD/CAM	A/503/5848	3	5	30
Product lifecycle management using a CAD system	F/503/5849	3	5	30
Product pattern development using a CAD system	K/503/5845	3	5	30
Pattern grading using a CAD system	M/503/5832	3	5	30
Lay planning using a CAD system	R/503/5841	3	5	30
Assemble garments for fitting	J/502/0883	3	5	30

Fit and re-cut garments to customer requirements	R/502/0885	3	5	30
Complete garment to customer specification	D/502/0887	3	5	30
Construct and adapt patterns to customer requirements	D/502/0890	3	5	30
Lay up, mark-in and cut materials	T/502/0894	3	5	30
Make up and assemble apparel samples	L/502/0903	3	5	30
Sample Technologist Pathway				
Investigate markets, materials and styles	R/502/0899	3	5	30
Produce final apparel product specification	A/502/0900	3	5	30
Assess customer requirements and take measurements	F/502/0901	3	5	30
Plan apparel production schedule	J/502/0902	3	5	30
Illustrate a fashion design concept using CAD	T/503/5847	3	5	30
Create product specifications using CAD/CAM	A/503/5848	3	5	30
Product lifecycle management using a CAD system	F/503/5849	3	5	30
Make up and assemble apparel samples	L/502/0903	3	5	30
Solve quality issues for sample apparel production	A/502/0895	3	5	30
Produce sample garments for manufacture	F/502/0896	3	5	30
Provide technical feedback on sample garments	J/502/0897	3	5	30
Handle and measure garments to ensure compliance with requirements	L/502/0898	3	5	30

Practice Assessment Material

Skills and Education Group Awards confirm that there is no practice assessment material for this qualification.

Teaching Strategies and Learning Activities

Centres should adopt a delivery approach which supports the development of all individuals. The aims and aspirations of all the learners, including those with identified special needs or learning difficulties/disabilities, should be considered and appropriate support mechanisms put in place.

Progression Opportunities

Learners will be able to build on this qualification through managerial routes or build on technical skills by utilising the Fashion and Textiles framework.

Centres should be aware that Reasonable Adjustments which may be permitted for assessment may in some instances limit a trainee's progression into the sector. Centres must, therefore, inform trainees of any limits their learning difficulty may impose on future progression

Tutor/Assessor Requirements

We require those involved in the assessment process to be suitably experienced and / or qualified. In general terms, this usually means that the assessor is knowledgeable of the subject / occupational area to a level above that which they are assessing.

Assessors should also be trained and qualified to assess or be working towards appropriate qualifications.

Centres must take all reasonable steps to avoid any part of the assessment of a learner (including any internal quality assurance and invigilation) being undertaken by any person who has a personal interest in the result of the assessment.

Language

These specifications and associated assessment materials are in English only.

Qualification Summary

Qualification								
SEG Awards Level 3 Certificate in Apparel Manufacturing Technology (NVQ) (Garment Technologist) SEG Awards Level 3 Certificate in Apparel Manufacturing Technology (NVQ) (Pattern and Grading Technologist) SEG Awards Level 3 Certificate in Apparel Manufacturing Technology (NVQ) (Handcraft Garment Maker) SEG Awards Level 3 Certificate in Apparel Manufacturing Technology (NVQ) (Sample Technologist)								
Qualification Purpose	D. Confirm occupational competence and/or 'licence to practice' D1. Confirm competence in an occupational role to the standards required							
Age Range	Pre 16		16-18	✓	18+		19+	✓
Regulation	The above qualification is regulated by: Qualification Wales							
Assessment	- Internal assessment - Internal and external moderation							
Type of Funding Available	See LARS (Learning Aims Reference Service)							
Qualification/Unit Fee	See Skills and Education Group Awards web site for current fees and charges							
Grading	Pass To achieve a Pass, learners must complete all units as stated in the rule of combination (RoC)							
Operational Start Date	01/12/2011							
Review Date	31/12/2028							
Operational End Date								
Certification End Date								
Guided Learning (GL)	200 hours							
Total Qualification Time TQT)	330 hours							
Credit Value	33							
Skills and Education Group Awards Sector	Sewing and Textiles							
Qualification Wales SSA Sector	4.2 Manufacturing Technologies							
Support from Trade Associations/Stakeholder Support	UKFT							
Administering Office	See Skills and Education Group Awards website							

Health, Safety and Security at Work

Unit Reference	K/502/1072
Level	2
Credit Value	3
Guided Learning (GL)	20 hours
Unit Summary	This unit is for those who take responsibility for their own health, safety and security in the workplace, and monitor the workplace for hazards. The job role involves contributing to the safety and security in the workplace, taking action in the event of an incident, raising the alarm, following correct procedures for shut down and evacuation, using emergency equipment correctly and safely, and monitoring the workplace for hazards. This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.2) <i>The learner can:</i>
1. Be able to work safely	1.1. Take appropriate action in the event of fire, emergencies or accidents 1.2. Identify where alarms, emergency exits, escape routes, emergency equipment and assembly points are located 1.3. Demonstrate safe and appropriate use of emergency equipment 1.4. Discriminate between different alarm sounds 1.5. Comply with equipment operating procedures and manufacturers instructions 1.6. Demonstrate safe handling and lifting techniques 1.7. Demonstrate correct use and maintenance of any protective clothing and/or equipment 1.8. Comply with personal responsibilities under the Health and Safety at Work Act / COSHH 1.9. Identify who the nominated first aiders are

2. Be able to monitor the workplace for hazards	2.1. Identify hazardous substances that are used in the workplace and demonstrate methods of making them safe or reducing their danger in the event of an accident 2.2. Identify hazards posed by machinery that is used in the workplace and demonstrate methods of making safe or reducing their danger in the event of an accident 2.3. Demonstrate how to handle and store hazardous substances including debris 2.4. Demonstrate how to store materials and equipment 2.5. Explain what the most likely accidents and emergencies in the workplace are and how to deal with them 2.6. Comply with personal responsibilities under the COSHH (Control of Substances Hazardous to Health)
3. Be able to contribute to workplace security	3.1. Outline and comply with the organisation's rules, codes, guidelines and standards relating to security 3.2. Explain how to deal with loss of property
Mapping to National Occupational Standards This unit relates to Manufacturing Sewn Products NOS 2007	

Maintaining the Work Area for Manufacturing Sewn Products

Unit Reference	M/502/1073
Level	2
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who carry out ongoing routine maintenance of tools and equipment, recognising potential problems and dealing with them within the limit of their personal responsibility. The job role involves looking after tools and equipment and keeping the work area clean and tidy. This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.4) <i>The learner can:</i>
1. Be able to maintain tools and equipment	1.1. Handle tools and equipment safely and correctly 1.2. Use equipment in accordance with operating procedures and manufacturers' instructions 1.3. Locate sources of information regarding maintenance procedures 1.4. Explain why it is important to conduct running maintenance 1.5. Identify common faults with equipment and how they can be rectified 1.6. Carry out running maintenance within agreed schedules 1.7. Identify hazards likely to be encountered when conducting running maintenance 1.8. Identify parameters of own responsibility, colleagues responsibility and those of line manager 1.9. Report unsafe equipment and other dangerous occurrences 1.10. Refer and report the need for maintenance outside your responsibility

	1.11. Make appropriate referral and take appropriate action when problems are identified
2. Be able to maintain cleanliness of own work area	2.1. Maintain a clean and hazard free working area 2.2. Keep the work area free from waste, lubricants and obstructions 2.3. Identify and employ different ways of minimising waste 2.4. Dispose of waste safely in a designated location 2.5. Carry out cleaning safely according to schedules and limits of responsibility 2.6. Use cleaning equipment and methods appropriate for the work to be carried out in a safe manner 2.7. Identify different types of cleaning equipment and their use 2.8. Store cleaning equipment safely after use
3. Be able to maintain own wellbeing	3.1. Work in a comfortable position with good posture 3.2. Use and maintain personal protective clothing and/or equipment 3.3. Comply with statutory and organisational rules, codes, good practice guidelines and standards relating to health, safety, security and sustainability 3.4. Use correct lifting and handling procedures
Mapping to National Occupational Standards This unit relates to Manufacturing Sewn Products NOS 2007	

Maintain the Quality of Production Working with Textiles, Leather and Materials

Unit Reference	T/502/1074
Level	2
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who monitor their own production activities; helping to achieve production targets, keeping up the rate of production, organise their work activities to make sure that agreed production targets and instructions are met; identify and find out the cause of faults; correct faults; make a variety of decisions; use appropriate methods not only to rectify any faults but to prevent any repetition of the fault. The job role involves inspecting materials and products, finding the cause of faults in materials and products, correcting faults and recording details. This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 4) <i>The learner will:</i>	Assessment Criteria (1.1 to 4.3) <i>The learner can:</i>
1. Be able to check for faults	1.1. Identify different techniques and methods used to detect faults 1.2. Identify the inspection method/s appropriate to the work 1.3. Use organisational recording and reporting systems 1.4. Carry out quality checks at specified intervals according to instructions 1.5. Record information accurately and completely 1.6. Identify faults in materials and products and take appropriate action 1.7. Identify and report potential solutions to rectify faults 1.8. Follow reporting procedures where the cause of faults cannot be identified

	1.9. Report faults outside personal responsibility to the appropriate person
2. Be able to rectify faults	2.1. Identify different types of faults likely to be encountered and the ways of rectifying them 2.2. Differentiate between correctable and non-correctable faults 2.3. Explain how to compare types of faults with possible causes and solutions (equipment, materials, process) 2.4. Describe acceptable solutions for particular faults 2.5. Explain the types of adjustments that are suitable for specific types of faults 2.6. Make adjustments promptly to return product to specification 2.7. Monitor rectified faults to ensure the problems have been solved
3. Understand the impact of faults on the production process	3.1. Explain why product checks are important 3.2. Identify potential consequences of not rectifying problems 3.3. Explain the importance of recording details of non-established adjustments 3.4. Explain the consequences of not monitoring adjustments made
4. Recognise own place within the production process	4.1. Describe own responsibilities at work during production 4.2. Prioritise the fault rectification process to maintain production requirements 4.3. Identify quality and production targets and the effect of not meeting these on self and/or your team
Mapping to National Occupational Standards This unit relates to Manufacturing Sewn Products NOS 2007	

Identify and Agree the Construction of Garments to be Produced

Unit Reference	J/502/0866
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who evaluate requirements for different garments that vary in style, fabric and make up. The job role will involve • evaluating requirements for garments • selecting garments to be produced • assessing designs and recommending production methods This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 4) <i>The learner will:</i>	Assessment Criteria (1.1 to 4.3) <i>The learner can:</i>
1. Be able to use organisational and production methods to meet the needs of suggested designs	1.1. Evaluate organisational and production requirements for suggested designs 1.2. Identify possible constraints to the design features and fit 1.3. Assess possible production methods to ensure the viability of the suggested designs 1.4. Review existing and potential production systems against requirements for the suggested designs
2. Know about construction methods to meet requirements	2.1. Evaluate construction methods and supporting documents to ensure that they • meet requirements • are produced within cost parameters 2.2. Liaise and agree the type of construction methods to meet requirements

3. Be able to use the required procedures and practices to select the designs to be produced	3.1. Identify required equipment and work aids 3.2. Identify and agree with the relevant people any amendments to the designs to meet • production needs • organisational and other requirements • costing and other constraints 3.3. Liaise and agree with appropriate people the designs to be presented to customers 3.4. Recommend construction methods and sequencing for make-up within cost and production parameters 3.5. Identify the resources required for production, and their availability 3.6. Identify and adhere to agreed critical paths 3.7. Complete all forms, reports and other documentation
4. Know about good practice, quality and documentary standards and requirements within an organisation	4.1. Apply the organisation's rules, codes, guidelines and standards 4.2. Apply the organisation's quality systems and procedures 4.3. Use the organisation's operational procedures
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Monitor Compliance with Requirements in Garment Construction

Unit Reference	L/502/0867
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who evaluate garment construction throughout pre-production processes for different garments that vary in style, fabric and make up. The job role will involve • Evaluating garment construction throughout pre-production processes • Monitoring and amending resources and working methods to meet requirements • Consulting with others to ensure requirements are met This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 4) <i>The learner will:</i>	Assessment Criteria (1.1 to 4.4) <i>The learner can:</i>
1. Know about pre-production for different garments	1.1. Identify the principles and methods of • production • garment construction • costing 1.2. Know what the construction and properties are of materials and components 1.3. Identify construction methods to achieve design within given resource constraints
2. Know about organisational and customer requirements to be met	2.1. Analyse and collate reports, testing and other information from the pre-production process(es) to evaluate compliance with organisational and customer requirements, to include • trims • size chart and measurement including fit • wash standards • colour match • appropriateness of equipment used including pressing

	• ease of production 2.2. Evaluate the resources needed to produce the product 2.3. Evaluate the suitability of the following resources for the production of agreed garments • patterns • materials • components • production / working method • sequences for pre-production and production • machinery capacity and capability 2.4. Evaluate garments against requirements and constraints at the end of each of the pre-production processes 2.5. Negotiate and agree any changes to the requirements at the appropriate point in the pre-production process with the relevant people
3. Be able to diagnose and rectify faults prior to production	3.1. Discuss problems and clarify points and issues arising from the garments produced and tested that might impinge on the final production of the garment 3.2. Ensure any identified changes modified patterns and garments are feasible 3.3. Ensure patterns and garments are modified 3.4. Identify feasible alternative garment assembly methods if required
4. Know about specifications, quality standards and finishing requirements	4.1. Check that the finished products meet requirements 4.2. Liaise with quality control personnel to maintain ongoing technical quality standards 4.3. Ensure records of production, costing and method amendments are maintained 4.4. Comply with written instructions and complete forms, reports and other documentation as required
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Create and Maintain Technical Documents and Records in Garment Construction

Unit Reference	D/502/0873
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who create and maintain technical records for different garments that vary in style, fabric and make up. The job role will involve • Creating and maintaining technical records • Completing documents to meet requirements • Providing final specifications and supporting documents This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 6) <i>The learner will:</i>	Assessment Criteria (1.1 to 6.6) <i>The learner can:</i>
1. Know about recording systems and requirements	1.1. Identify recording requirements 1.2. Create records for proposed designs that meet recording requirements 1.3. Identify existing recording documents and create new documents to meet recording requirements
2. Understand the impact of legislative and contractual requirements on design and technical specification	2.1. Comply with security and confidentiality agreements 2.2. Identify the impact of legislative requirements on • design • technical specifications • import and export of part and finished goods
3. Be able to use the correct documentation and meet requirements	3.1. Identify all documentary requirements for the garments 3.2. Complete final working documents with all necessary information using • garment technical terminology

	• garment details • graphics 3.3. Define all the style features and production requirements on the working documents
4. Be able to create a product specification	4.1. Identify requirements for final specifications and supporting documents 4.2. Evaluate all pre-production and manufacturing data to develop the final product specification 4.3. Identify the material specification, test reports, handling, care and labelling
5. Be able to produce final working documents and specifications in consultation with relevant personnel	5.1. Provide all relevant personnel with final working documents and draft final specifications 5.2. Amend final specifications in response to feedback received 5.3. Collate and agree final working documents with appropriate personnel
6. Be able to demonstrate workplace skills	6.1. Produce work in line with critical paths 6.2. Resolve problems diplomatically within the work area, and within limits of personal responsibility 6.3. Adapt to change positively and constructively 6.4. Maintain a good working relationship and communicate effectively with colleagues and customers 6.5. Comply with written instructions and complete forms, reports and other documentation as required 6.6. Pass on all relevant information to the next stage of production
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Contribute to the Production of Outsourced Apparel Products

Unit Reference	T/502/0877
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who examine the production needs for outsourced apparel products for different garments that vary in style, fabric and make up. The job role will involve • Examining the production needs for outsourced apparel products • Provide resources to meet the production needs • Support the production process This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.4) <i>The learner can:</i>
1. Be able to determine the products that are to be outsourced or produced onsite	1.1. Identify equipment and resources that are available to produce at the differing locations 1.2. Examine the differing resources required and the most cost effective way of meeting them 1.3. Identify differing production requirements and documentation for outsourced products 1.4. Identify different legislative and other codes of practice operating at outsourcing locations 1.5. Discuss and agree the resources and procedures for procuring the resources required for production 1.6. Locate and document the resource requirements and supply chain
2. Be able to manage the production of outsourced products	2.1. Identify the support requirement at the outsourcing locations 2.2. Document quality and other requirements for the production at the outsourcing location in a format that can be easily understood and implemented

	2.3. Identify problems and resolve issues raised by staff at the outsourcing locations 2.4. Contribute to the monitoring of the production process at the outsourcing location 2.5. Complete documents accurately for outsourced production
3. Identify their own role in the outsourcing of products	3.1. Deal with problems within the work area, and within limits of personal responsibility 3.2. Use effective communication throughout the production process 3.3. Report problems with packing products to the appropriate person 3.4. Complete records accurately and store in the agreed place
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Investigate Markets, Materials and Styles

Unit Reference	R/502/0899
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who identify and review existing and new markets, materials and styles relating to garments that vary in style, fabric and make up. The job role will involve - Identifying and reviewing markets, materials and styles - Evaluating and feeding back information on markets, materials and styles This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.3) <i>The learner can:</i>
1. Be able to research current markets, materials and styles	1.1. Review up-to-date documents relating to current markets, materials and styles 1.2. Visit appropriate outlets to examine and evaluate features of current and emerging materials and styles 1.3. Continually observe the public to identify emerging markets, styles and materials appropriate to your organisation's products and services, including the potential for new markets
2. Be able to evaluate the markets and identify competitors	2.1. Examine and assess the styles being presented by designers for current and future seasons 2.2. Identify national and international competitors that are likely to impact on your organisation's markets 2.3. Evaluate the markets for your apparel products

3. Be able to identify new markets that might enhance your organisation's product base and communicate any recommendations	3.1. Identify new markets that might enhance your organisation's product base 3.2. Develop and document ideas for new, and appropriate adaptations to your organisation's own styles, materials and markets 3.3. Communicate your ideas and make recommendations about changes and expansions to the appropriate personnel
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Produce Final Apparel Product Specification

Unit Reference	A/502/0900
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who compile design and pattern requirements for garments that vary in style, fabric and make up. The job role will involve • Compiling design and pattern requirements • Contributing to product costing • Finalising assembly sequence and quality assurance criteria This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.3) <i>The learner can:</i>
1. Be able to contribute to product sourcing and costing	1.1. Agree quality, quantity and types of materials and components with appropriate personnel 1.2. Source and include fabric testing reports in product specifications 1.3. Check the supply of materials with appropriate personnel 1.4. Obtain material and component costs from suppliers and produce accurate costings 1.5. Supply relevant make-up costings within given costing systems 1.6. Produce make-up costings that meet required contribution to direct costs 1.7. Agree the costing breakdown reproduced in the specification with appropriate personnel

2. Be able to compile product specification	2.1. Verify product size charts and measurement instructions with customers and include them in final specifications according to organisational and customer requirements 2.2. Describe and illustrate any special features or treatments 2.3. Identify and describe finishing requirements 2.4. Communicate with quality control information for each operation which matches agreed design and customer requirements 2.5. Identify product labelling and packing instructions which comply with legislative and customer requirements
3. Be able to organise requirements for production	3.1. Identify the product parts, the assembly sequence and the production methods which will achieve design and cost criteria 3.2. Give clear and accurate instructions for handling materials 3.3. Agree each production operation with appropriate personnel
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Access Customer Requirements and Take Measurements

Unit Reference	F/502/0901
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who take customer measurements and assess figuration for different types of figures, sets of basic measures, and sets of figuration. The job role will involve taking customer measures and assessing figuration. This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.2) <i>The learner can:</i>
1. Be able to identify relevant measurements for the garment	1.1. Identify the correct set of measures for the garments to be made
2. Be able to take complete set of measurements	2.1. Take a complete set of measures for the garment being made • in the correct sequence • in a manner which maintains customer relationships
3. Be able to record and assess the measurements and the customer's figuration	3.1. Accurately assess and record customer's figuration 3.2. Document the measurements accurately and completely
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Plan Apparel Production Schedule

Unit Reference	J/502/0902
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who identify the requirements and constraints for the production of garments that vary in style, fabric and make up. The job role will involve - Identifying requirements and constraints for production - Specifying and assessing material and machine settings - Developing plans to ensure production schedules meet requirements This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.3) <i>The learner can:</i>
1. Be able to inform a production schedule	1.1. Acquire all relevant documents to enable you to identify specification, production requirements and constraints 1.2. Liaise, consult and discuss with all those involved in the design, sampling and pilot production processes to establish requirements and possible constraints 1.3. Identify and document requirements for the production schedule 1.4. Identify and highlight possible constraints to the production and how these may be overcome
2. Be able to develop an outline of a production schedule	2.1. Identify components of the plan 2.2. Check that the components and the plan will meet the production schedule requirements 2.3. Develop outline plans for discussion and agreement

	2.4. Liaise, consult and discuss your outline plans with the appropriate people
3. Be able to finalise a production schedule	3.1. Develop final plans which ensure that the production schedule meets the quality, time and other requirements 3.2. Agree the plan with the appropriate people 3.3. Seek and obtain required written approvals
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Illustrate a Fashion Design Concept using CAD

Unit Reference	T/503/5847
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who create CAD fashion illustrations of new product/item designs presenting concepts that will record the style and features of the item. The job role may involve • utilising vector based drawing programs or CAD/CAM system functions to create design sketches in the virtual domain • producing new design concepts fitting in with the design brief, as individual fashion/product or items, or as part of a range • demonstrating a detailed knowledge and understanding of product construction and pattern design and development techniques and processes • including descriptions of design features, such as colour options, style details, fabric grain line, nap, stitching or embellishment • ensuring notation relevant to all features is present • detailing fabric and trim selections • labelling design correctly and saving • demonstrating a strong attention to detail This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 2) The learner will:	Assessment Criteria (1.1 to 2.5) The learner can:
1. Work from a design brief to produce a new design concept	1.1. Explain the requirements of a specified design brief considering • product range/design theme • target market • fabric/materials • costing • timescale • customer/client requirements

	1.2. Using appropriate software, develop design ideas to create a new style or develop an existing style to include the use of • a vector based illustration package • and/or imported hand drawn illustrations 1.3. Save designs according to organisational protocols 1.4. Implement data back up techniques
2. Present final design concept	2.1. Select a design which best meets the design brief 2.2. Present the design concept in line with company/customer approach to include advanced design presentation images detailing • fabric choice • style features • trims • specific measurements 2.3. Create a sample specification sheet for the production of the initial prototype 2.4. Save final designs according to organisational protocols 2.5. Implement data back up techniques
Mapping to National Occupational Standards This unit relates to Apparel Manufacturing Technology NOS March 2010 AMTech 27	

Transfer Product Patterns into CAD Systems

Unit Reference	H/503/5830
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who generate electronic versions of paper product patterns by digitising pattern piece information from paper/card patterns using a digitising tablet and stylus. The job role may involve • inputting all product pattern piece dimensions and features into CAD/CAM system • demonstrating a competent understanding of product construction and pattern design and development techniques and processes • including all relevant notation on the pattern pieces • indicating direction of fabric grain line, nap and pattern • labelling the digitised pattern piece correctly • saving individual pattern pieces using unique identifiers to indicate product, style, component This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) The learner will:	Assessment Criteria (1.1 to 3.6) The learner can:
1. Prepare to digitise patterns into a CAD system	1.1. Identify systems and software, for the purpose of industry context 1.2. Identify the required patterns for digitising 1.3. Review pattern pieces prior to digitising to identify any key design features 1.4. Identify standard pattern pieces 1.5. Create or utilise an existing sizing rule table to enable future grading 1.6. Setup storage areas for individual patterns pieces / finished product

2. Be able to perform the digitising process	2.1. Utilise CAD technology to transfer patterns accurately and efficiently to required organisational standard 2.2. Using chosen software, input industry standard pattern notations including as appropriate • balance marks / notches • drill holes • seam allowance • grain line • component name • darts 2.3. Label and save pattern pieces according to organisational protocols
3. Be able to review digitising process	3.1. Assess digitised pattern on system against initial pattern either on screen or by plotting 3.2. Evaluate patterns to ensure standard pattern notations are correct 3.3. Use basic pattern modification techniques as appropriate to rectify faults within limits of own authority, following agreed procedures 3.4. Report faults that are outside their area of responsibility to the appropriate person 3.5. Save pattern according to organisational protocols 3.6. Implement data backup techniques
Mapping to National Occupational Standards This unit relates to Apparel Manufacturing Technology NOS March 2010 AMTech 28	

Create Product Specifications using CAD/CAM

Unit Reference	A/503/5848
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who compile all information relevant to product or style, including product/item styling and trim, utilising the CAD/CAM package to present all the information within a product specification sheet or pack. The document will provide an accurate point of reference to multiple parties at all stages of the production process. The job role may involve - demonstrating awareness of all aspects of the product such as: styling information; fabric; need for interlinings; labels for sizing and branding; and trims such as zips, fastenings and embellishments - demonstrating a competent understanding of product construction and pattern design and development techniques and processes - taking into account different requirements for products across the size ratio This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 2) <i>The learner will:</i>	Assessment Criteria (1.1 to 2.5) <i>The learner can:</i>
1. Be able to compile product data for utilisation of CAD/CAM	1.1. Gather all the relevant information needed for minimum of two products in line with critical path deadlines 1.2. Confirm that all technical information is present and accurate according to organisational protocols
2. Be able to create a product utilising CAD/CAM	2.1. Using appropriate software, accurately input product information for minimum of two products with critical path deadlines 2.2. Save product information according to organisational protocols

	2.3. Generate the product specification either electronically or as hard copy 2.4. Supply product specification to appropriate personnel according to organisational protocols 2.5. Implement data back up techniques
Mapping to National Occupational Standards This unit relates to Apparel Manufacturing Technology NOS March 2010 AMTech 32	

Product Lifecycle Management using a CAD System

Unit Reference	F/503/5849
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who consider all stages of the development of a product in order to effectively plan and implement production and delivery schedules. It involves ensuring all aspects of the product are in place, finalised graded pattern, fabric specifications, details of trim and labels, indication of delivery schedules of raw materials, awareness of production capacity and delivery according to launch of styles. The job role may involve • working across a number of applications within the CAD/CAM system • demonstrating a competent understanding of product construction and pattern design and development techniques and processes, also production and delivery requirements • inputting accurate details of product/item components • ensuring that all details are correct and updated as required, where remote access is necessary off site or overseas • utilising the CAD/CAM system to plan and monitor production This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 2) <i>The learner will:</i>	Assessment Criteria (1.1 to 2.3) <i>The learner can:</i>
1. Be able to compile style/product information for inputting information into a Product Lifecycle Management system	1.1. Explain the purpose of a PLM system 1.2. Gather all relevant information needed for a minimum of 2 product styles to be inputted into a PLM system for a given season 1.3. Confirm all information is present and accurate according to organisational protocols

2. Be able to input data into a PLM system	2.1. Using appropriate software, accurately input details of products 2.2. Use a PLM system to plan and monitor production of products from design to retail stage 2.3. Anticipate any aspects of a style of products which may present problems
Mapping to National Occupational Standards This unit relates to Apparel Manufacturing Technology NOS March 2010 AMTech 33	

Access and Develop Given Apparel Designs

Unit Reference	A/502/0878
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who assess the features of given designs for different designs that vary in style, fabric and make up The job role will involve • assessing features of given designs • modifying given designs to meet requirements This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.3) <i>The learner can:</i>
1. Know about the company product range and production locations	1.1. Identify the extent and content of company product range and production locations
2. Be able to evaluate the design, cost and production requirements to meet the customers' needs	2.1. Identify key product design features 2.2. Evaluate fabric characteristics for the given design 2.3. Identify possible constraints to the design features to ensure they • conform to customer specifications and requirements • are able to be manufactured within your factory or as outsourced goods • meet required costings 2.4. Identify any amendments that are necessary or desirable and which will meet the requirements of customer, design, cost and production
3. Be able to action amendments to the design to meet all requirements	3.1. Clarify issues arising from the investigations about the required design features with the appropriate personnel 3.2. Agree any changes relating to design features with appropriate personnel

	3.3. Produce samples necessary to illustrate viability and cost effectiveness of proposed amendment
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Produce Block and Graded Patterns for Apparel Products

Unit Reference	F/502/0879
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who construct a set of block patterns, sized for different garments that vary in style, fabric and make up. The job role will involve constructing a block pattern. This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 4) <i>The learner will:</i>	Assessment Criteria (1.1 to 4.3) <i>The learner can:</i>
1. Know about international sizing standards and their application	1.1. Identify and select size standards that are appropriate for the • country • market • customer 1.2. Identify and select size standards that match the gender and age profile of the end customer 1.3. Identify the significance of critical body measurement points
2. Be able to interpret information to produce block patterns	2.1. Identify the significance of gender, age and body shape (anthropometrics) on block development 2.2. Interpret graded size charts, surveys and other information 2.3. Identify which information technology applications are relevant to block pattern construction
3. Be able to create a block pattern	3.1. Identify the techniques of block pattern construction 3.2. Identify what the types, placement and meaning of pattern markings are 3.3. Create a block that

	- contains all relevant markings and sizing - is suitable for fabric and product 3.4. Integrate materials characteristics into block patterns
4. Be able to grade a block pattern	4.1. Produce a graded size chart 4.2. Apply incremental grade rules 4.3. Grade a block pattern that - contains all relevant markings and sizing - is suitable for fabric and product
Mapping to National Occupational Standards This unit relates to Apparel Manufacturing Technology NOS 2008	

Produce Prototype / Sample Patterns and Assess for Fit

Unit Reference	T/502/0880
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who produce sample patterns for different garments that vary in size, style, fabric, and make up. The job role will involve • producing pattern shapes to create garments • monitoring and evaluating first samples • producing production patterns • conduct customer fitting This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 5) <i>The learner will:</i>	Assessment Criteria (1.1 to 5.2) <i>The learner can:</i>
1. Be able to produce final working drawings that contain all necessary information to create first patterns	1.1. Produce and interpret final working drawing 1.2. Select block patterns as a working base to meet the specific design, and which are consistent with the characteristics of the material 1.3. Select block patterns to create first patterns
2. Know how to apply systems to production sampling	2.1. Identify what the customer and organisational sampling requirements are 2.2. Supply the sampling department with appropriate information and materials 2.3. Monitor sample production and get feedback from sample makers 2.4. Assess the first sample for fit and adherence to quality specification
3. Be able to complete master patterns clearly and presenting them in a form that is appropriate to all relevant personnel	3.1. Adapt and manipulate block patterns to meet the specific design

	3.2. Produce patterns which are compatible with the intended production process 3.3. Produce templates for style features and component parts that are accurate and easily identified 3.4. Produce clear patterns using appropriate symbols and markings 3.5. Testing the pattern to evaluate the design interpretation 3.6. Communicate effectively with colleagues
4. Be able to review the production process and implement any necessary modifications	4.1. Make adjustments to patterns in the light of comments 4.2. Distribute production patterns to appropriate people 4.3. Identify the production implications of sample evaluations 4.4. Implement modifications agreed by relevant personnel 4.5. Determine what the manufacturing and machine capability and capacity is
5. Be able to produce work in line with critical paths	5.1. Provide critical quality control and risk assessment information 5.2. Identify the specifications, quality assurance and control procedures
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Produce Lay Plans for Apparel Products

Unit Reference	A/502/0881
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who develop pattern layouts for different garments that vary in style, fabric and make up, including those requiring special attention (e.g. stretch, matching checks and patterns). The job role will involve • Developing pattern layouts • Producing final cutting order This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 4) <i>The learner will:</i>	Assessment Criteria (1.1 to 4.4) <i>The learner can:</i>
1. Be able to evaluate fabric characteristics against design and order requirements	1.1. Evaluate whether fabric spreading and lay specifications are appropriate to fabric and will meet customer and organisational requirements 1.2. Identify the appropriate type of lay to arrive at an optimum plan for materials and equipment
2. Be able to produce a pattern layout to meet production schedule requirements	2.1. Produce a pattern layout to meet specifications and production schedule requirements • to include all garments parts and sizes • ensuring that it is compatible with intended fabric spreading pattern • to take into account fabric direction • using pattern piece manipulation techniques to achieve maximum fabric utilisation and cost effectiveness 2.2. Produce and agree initial lay costings with appropriate personnel
3. Be able to produce final lay plan to meet production schedule requirements	3.1. Develop a final lay plan which accommodates • machinery and production processes

	• changes in customer specifications and materials in the lay plan • internal pattern reference systems and instruction requirements • cutting equipment and techniques on the choice of laying-up method and ply depth
4. Be able to manage documentation and information	4.1. Label and archive lay plans to permit easy retrieval 4.2. Use methods of duplicating masters which are appropriate to the location of processing and level of information required 4.3. Identify all information necessary to achieve customer requirements in the cutting order 4.4. Supply accurate cutting order information to the appropriate personnel
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Product Pattern Development using a CAD System

Unit Reference	K/503/5845
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who alter and amend existing product blocks, or pattern pieces stored within a CAD/CAM system to create new concepts, or variations of a style. The job role may involve - retrieving appropriate pattern block or piece to amend, from CAD/CAM system file - demonstrating a competent understanding of product construction and pattern design and development techniques and processes - modifying the pattern to suit the required shape - accounting for fabric properties such as inherent stretch, pile, nap, drape and shrinkage - ensuring all pattern pieces to be altered are amended - labelling and saving the new pattern appropriately This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 2) The learner will:	Assessment Criteria (1.1 to 2.6) The learner can:
1. Be able to use CAD technology to modify existing blocks/pattern pieces to create a new concept	1.1. Analyse design illustration to identify modifications required 1.2. Select the most appropriate block/pattern pieces from those saved on the system 1.3. Plan how to make the required amendments and manipulate the pattern considering - the manufacturing process - how components fit together - how to take accurate measurements - size specifications - effect of fabric performance

	1.4. Utilise CAD technology to modify patterns accurately and efficiently to required organisational standard 1.5. Using chosen software, input industry standard pattern notations including as appropriate • balance marks / notches • drill holes • seam allowance • grain line • component name • darts 1.6. Label and resave pattern pieces according to organisational protocols
2. Be able to review and implement modifications	2.1. Assess modifications made on system against design/specification either on screen or by plotting 2.2. Save draft pattern according to organisational protocols 2.3. Generate lay plan for costing and prototype 2.4. Check prototype and modify pattern as appropriate 2.5. Resave final pattern according to organisational protocols 2.6. Implement data back up techniques
Mapping to National Occupational Standards This unit relates to Apparel Manufacturing Technology NOS March 2010 AMTech 29	

Make Up Apparel Products from Patterns

Unit Reference	F/502/0882
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who prepare to make up different garments that vary in style, fabric and make up, and also use fabric that requires matching. The job role will involve • Preparing to make up garments • Making up garments This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 7) <i>The learner will:</i>	Assessment Criteria (1.1 to 7.1) <i>The learner can:</i>
1. Be able to prepare resources to make up garment	1.1. Identify pattern components and making requirements 1.2. Identify laying requirements for patterns 1.3. Select the appropriate materials, tools and equipment to make up the garment
2. Be able to meet the laying requirements for patterns	2.1. Identify all necessary pattern pieces that are required to complete the design and locate any missing components 2.2. Arrange the pattern pieces on the material to minimise wastage and ensure appropriate cutting for style and design
3. Be able to cut garment components and prepare interfacings required to meet requirements for garment production	3.1. Cut and prepare components required to make up the garments 3.2. Mark materials pieces in the appropriate way to ensure that all design features are met and the material pieces are ready for sewing 3.3. Cut and prepare any interfacings required to make up the garments

	3.4. Cut the materials matching, grain, pile and other requirements for material and pattern
4. Be able to select and use production processes, procedures and techniques for the garments ensuring all design features are met	4.1. Assemble garments pieces and identify and select appropriate sewing techniques 4.2. Order and prioritise the way the garments will be made up 4.3. Demonstrate suitable handling techniques and work methods to achieve required outcomes 4.4. Complete machine sewing processes efficiently and effectively
5. Be able to select and use appropriate hand sewing and finishing procedures	5.1. Demonstrate suitable handling techniques and work methods to achieve required outcomes 5.2. Complete hand sewing procedures at appropriate times within the make up process 5.3. Complete finishing procedures
6. Be able to select and use diagnostic and corrective methods and techniques	6.1. Critically examine garments and compare with design requirements throughout the production process 6.2. Diagnose faults correctly and take appropriate corrective action
7. Use safe working practices that conform to current legislative requirements and codes of practice	7.1. Use working practices that are safe and conform to current legislative requirements and codes of practice

Mapping to National Occupational Standards

This unit maps to Apparel Manufacturing Technology NOS 2008

Pattern Grading using a CAD System

Unit Reference	M/503/5832
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who retrieve finalised pattern pieces to be graded in size across the required sizing chart. The job role may involve: - retrieving appropriate standard size pattern block or piece from CAD/CAM system file to be graded up and down according to size chart - demonstrating a competent understanding of product construction and pattern design and development techniques and processes - applying relevant size chart/rule table to all product pattern pieces - modifying the proportions of pattern appropriate to newly sized piece, especially for focal point features such as pockets or collars - ensuring all pattern pieces to be altered are amended - checking measurements of pattern pieces against size specification - labelling as required and saving the newly graded pattern appropriately This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) The learner will:	Assessment Criteria (1.1 to 3.5) The learner can:
1. Prepare to grade patterns using a CAD system	1.1. Identify pattern grading requirements of chosen systems and software, for the purpose of industry context 1.2. Retrieve the required product pattern 1.3. Utilise CAD / CAM technology and manual pattern grading techniques accurately and efficiently to required organisational standard 1.4. Identify the significance of critical body measurement points for grading

	1.5. Select grading methods appropriate to product type, size, fit and proportion
2. Be able to use CAD technology to grade patterns	2.1. Analyse size specification 2.2. Apply incremental values (X and Y coordinates) from existing size rule table or equivalent pattern pieces 2.3. Produce industry standard graded pattern to size chart measurements/customer specification according to organisational protocols
3. Be able to produce final set of graded patterns	3.1. Assess accuracy of fit and balance of product on system or plotting 3.2. Modify grade where appropriate to fit size specification within limits of own authority, following agreed procedures 3.3. Report faults that are outside their area of responsibility to the appropriate person 3.4. Save final graded pattern according to organisational protocols 3.5. Implement data backup techniques
Mapping to National Occupational Standards This unit relates to Apparel Manufacturing Technology NOS March 2010 AMTech 30	

Lay Planning using a CAD System

Unit Reference	R/503/5841
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who generate cutting lay plans onto a virtual equivalent of the fabric cutting length, by arranging pattern pieces manually or using automatic lay planning software. This process takes into account any lay constraints, and endeavours to maximise utilisation of the fabric. The job role may involve - retrieving graded product pattern pieces using appropriate CAD/CAM interface to generate virtual cutting lay - demonstrating a competent understanding of product construction and pattern design and development techniques and processes, to ensure that all pattern pieces are present - ensuring that all sizes, according to relevant contract sizing ratio are available to include in the lay - positioning all pattern pieces onto the virtual lay, either manually or utilising CAD/CAM functionality - having an awareness to accommodate features of different fabric types, where properties may affect ability to cut, such as: patterns; checks; surface interest; nap of fabrics such as velvet or corduroy - demonstrating an awareness for cost effectiveness by maximising fabric utilisation This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.4) <i>The learner can:</i>
1. Understand the basic principles of lay planning	1.1. Identify why lay planning rules need to be in place 1.2. Identify any constraints and limitations 1.3. Explain the importance of lay plan efficiency to maximise fabric utilisation

2. Be able to use CAD technology and manual lay planning techniques to produce cost effective lay plans	2.1. Retrieve finalised graded pattern pieces 2.2. Assess lay plan variations to produce the most cost effective lay plan taking into account the production process and organisational efficient targets 2.3. Accurately position or check automatically positioned pattern pieces on fabric template ensuring • all components have been graded and shown on screen • pattern pieces are positioned according to fabric grain line, pattern and nap direction • all size options are placed according to the contracted size ratio 2.4. Modify standard markers to a range of specifications to include • joining two markers • editing the width of a marker • bringing an extra size to a marker 2.5. Adapt standard markers as appropriate to a range of different fabric requirements and faults 2.6. Save final lay plan according to organisational protocols 2.7. Implement data back up techniques
3. Be able to plot a final lay plan	3.1. Set parameters for plotting 3.2. Select format required • single • double • size 3.3. Plot lay plan 3.4. Forward lay plan for cutting in line with organisational procedures
Mapping to National Occupational Standards This unit relates to Apparel Manufacturing Technology NOS March 2010 AMTech 31	

Assemble Garments for Fitting

Unit Reference	J/502/0883
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who prepare for initial assembly of different garments of varying styles which require the use of different fabric types, including fabrics which require matching. The job role will involve • Preparing garments for initial assembly • Performing assembly operations for fitting This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 2) <i>The learner will:</i>	Assessment Criteria (1.1 to 2.4) <i>The learner can:</i>
1. Be able to prepare garments for assembly	1.1. Correctly interpret instructions from the garment specification 1.2. Select materials to match work instructions in terms of quantity, type and quality 1.3. Identify, mark and divide components accurately 1.4. Inform the appropriate people of any deviations from requirements and the corrective action(s) taken 1.5. Ensure component parts meet production specification and operational requirements for fitting in terms of quality and quantity 1.6. Plan techniques and work methods to achieve specification, within agreed schedules
2. Be able to assemble garment for fitting	2.1. Assemble appropriate component parts 2.2. Forward garment using appropriate procedures which maintain sequence and product quality 2.3. Produce garment for fittings within agreed schedules and to meet customer requirements

	2.4. Complete documents accurately
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Mapping to National Occupational Standards

This unit maps to Apparel Manufacturing Technology NOS 2008

Fit and Re-Cut Garments to Customer Requirements

Unit Reference	R/502/0885
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who conduct customer fittings covering garments that vary in style and fabric types, including those that require matching. The job role will involve • Conducting customer fittings • Re-cutting garments to final specifications This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.3) <i>The learner can:</i>
1. Be able to prepare and arrange for a customer fitting	1.1. Arrange fitting times that are convenient to the customer 1.2. Schedule fittings at the appropriate stages of garment assembly 1.3. Identify the customer and the garment to be fitted 1.4. Assemble equipment to conduct the fitting
2. Be able to conduct a fitting with the customer	2.1. Conduct fitting and identify, mark and note alterations 2.2. Accurately record further instructions from the customer 2.3. Conclude fitting, agree amendments and further fitting arrangements, if required
3. Be able to make any necessary adjustments to the garment	3.1. Interpret alteration marks and correct garments accurately and according to requirements 3.2. Mark on the patterns these deviations / alterations for future use

	3.3. Complete the relevant documents for the next major stage
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Complete Garment to Customer Specification

Unit Reference	D/502/0887
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who prepare different garments of varying styles which require the use of different fabric types, including fabrics which require matching. The job role will involve • Preparing garments for final assembly • Performing assembly operations to customer satisfaction • Completing garments to specification This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.6) <i>The learner can:</i>
1. Be able to prepare garments for final assembly	1.1. Interpret instructions from the garment specification and notes from customer fitting correctly 1.2. Select materials to match work instructions in terms of quantity, type and quality 1.3. Identify, mark and divide components accurately 1.4. Dismantle garments without damage or loss of markings
2. Be able to carry out alterations to garments to meet requirements for final assembly	2.1. Carry out alterations to meet customer requirements 2.2. Inform the appropriate people of any deviations from requirements and the corrective action(s) taken 2.3. Ensure the assembled component parts meet production specification and operational requirements for final assembly in terms of quality and quantity

	2.4. Adapt techniques and work methods to achieve specifications, within the agreed schedules 2.5. Forward garment using appropriate procedures which maintain sequence and product quality 2.6. Complete relevant documents accurately
3. Be able to produce garments that meet specification requirements and customer satisfaction	3.1. Produce garments • within agreed schedules • to meet customer requirements and satisfaction 3.2. Finishing operations meet specification and quality requirements 3.3. Form garments to meet specification requirements avoiding damage and contamination 3.4. Recognise forming faults and correct them using appropriate methods 3.5. Finish the garment to customer requirements and satisfaction 3.6. Obtain the customer's approval of the finished garment
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Construct and Adapt Patterns to Customer Requirements

Unit Reference	D/502/0890
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who produce standard sized patterns and adapt them to meet different styles, fit and figuration. The job role will involve • Producing standard sized patterns • Adapting standard sized patterns to customer style, fit and figuration This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 4) <i>The learner will:</i>	Assessment Criteria (1.1 to 4.2) <i>The learner can:</i>
1. Be able to create blocks to meet specified requirements	1.1. Use appropriate methods for creating blocks within the required medium 1.2. Demonstrate that blocks are matched to specified size requirements and charts 1.3. Demonstrate that block proportion and style meet the specified requirements
2. Be able to use the appropriate markings on blocks accurately	2.1. Show all recognised construction lines on blocks 2.2. Accurately position the markings, sizing and construction information on your blocks 2.3. Present blocks to meet requirements within agreed schedules
3. Be able to present completed patterns within agreed schedules	3.1. Produce initial patterns in the required medium within agreed schedules 3.2. Make adaptations to match customer figuration and style requirements 3.3. Position all specified construction lines and markings on your final pattern accurately

	3.4. Check that all components of patterns fit together accurately 3.5. Present final patterns to meet requirements
4. Know how to complete accurate reports and inform appropriate people of results	4.1. Store the patterns in the specified manner, to ensure that the quality is preserved 4.2. Complete accurate reports and inform appropriate people of results
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Lay Up, Mark-In and Cut Materials

Unit Reference	T/502/0894
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who lay up materials for different garments that vary in style, fabric and make up. The job role will involve • Laying up materials and marking in the lay • Identifying deviations and rectifying faults and flaws • Cutting materials This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 4) <i>The learner will:</i>	Assessment Criteria (1.1 to 4.3) <i>The learner can:</i>
1. Be able to prepare materials and lays to meet specification requirements	1.1. Select materials to match quality and customer requirements 1.2. Plan lays to meet specification requirements 1.3. Demonstrate quality requirements are maintained at all times
2. Be able to carry out marking in the lay	2.1. Transfer pattern shapes and markings to all relevant fabrics accurately 2.2. Mark additional allowances on fabric accurately and to meet specified requirements 2.3. Complete documents accurately 2.4. Work safely and conform to current legislative requirements and codes of practice
3. Be able to identify faults and perform diagnosis and rectification methods	3.1. Identify different fabric characteristics 3.2. Demonstrate how to handle the fabric appropriately 3.3. Identify faults and flaws in fabric

	3.4. Identify appropriate corrective actions to remedy any faults and flaws 3.5. Use correct techniques and work methods to remedy faults and flaws, and to achieve the specification within agreed schedules
4. Be able to cut parts and store them, meeting quality and quantity requirements	4.1. Identify cutting requirements and parts to meet specification 4.2. Cut identified parts to meet quality and quantity requirements 4.3. Identify and store cut parts to preserve quality
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Make Up and Assemble Apparel Samples

Unit Reference	L/502/0903
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who prepare to make up sample garments that vary in style, fabric and make up, and also use fabric that requires matching. The job role will involve • Preparing to make up sample garments • Making up sample garments This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 7) <i>The learner will:</i>	Assessment Criteria (1.1 to 7.1) <i>The learner can:</i>
1. Be able to prepare resources to make up garments	1.1. Interpret instructions from the sample garment specification correctly 1.2. Select the appropriate materials, tools and equipment to make up the garment
2. Be able to meet the laying requirements for patterns	2.1. Identify all necessary pattern pieces that are required to complete the design and locate any missing components 2.2. Arrange the pattern pieces on the material to minimise wastage and ensure appropriate cutting for style and design
3. Be able to cut garment components and prepare interfacings required to meet requirements for garment production	3.1. Cut and prepare components required to make up the garments 3.2. Mark materials pieces in the appropriate way to ensure that all design features are met and the material pieces are ready for sewing 3.3. Cut and prepare any interfacings required to make up the garments 3.4. Cut the materials to meet matching, grain, pile and other requirements for material and pattern

4. Be able to select and use production processes, procedures and techniques for the garments ensuring all design features are met	4.1. Assemble garments pieces and identify and select appropriate sewing techniques 4.2. Order and prioritise the way the garments will be made up 4.3. Demonstrate suitable handling techniques and work methods to achieve required outcomes 4.4. Complete machine sewing processes efficiently and effectively 4.5. Produce sample within agreed schedules and to meet customer requirements
5. Be able to select and use appropriate hand sewing and finishing procedures	5.1. Demonstrate suitable handling techniques and work methods to achieve required outcomes 5.2. Complete hand sewing procedures at appropriate times within the make up process 5.3. Complete finishing procedures
6. Be able to select and use diagnostic and corrective methods and techniques	6.1. Critically examine garments and compare with design requirements throughout the production process 6.2. Diagnose faults correctly and take appropriate corrective action
7. Use safe working practices that conform to current legislative requirements and codes of practice	7.1. Use working practices that are safe and conform to current legislative requirements and codes of practice
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Solve Quality Issues for Sample Apparel Production

Unit Reference	A/502/0895
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who monitor quality compliance for sample production of different garments that vary in style, fabric and make up. The job role will involve - Monitoring quality compliance within sample production - Solving quality issues and problems This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 2) <i>The learner will:</i>	Assessment Criteria (1.1 to 2.4) <i>The learner can:</i>
1. Be able to monitor sample garment production throughout the sample production process	1.1. Identify the organisation's rules, quality assurance and quality control procedures and practices, codes, guidelines and standards 1.2. Check and make sure that quality monitoring requirements are met for sample production 1.3. Clarify any quality issues arising 1.4. Liaise with quality control personnel to maintain ongoing technical quality standards
2. Be able to identify any deviations from the specification requirements and their effect on the quality of the sample garment	2.1. Document any deviations from the specification requirements 2.2. Check corrective actions for the deviation(s) encountered and the quality issues raised 2.3. Inform the appropriate people of any modifications that have been made to the sample production and any effect this has had on the quality of the sample garment 2.4. Agree changes and indicate how these may affect future processes and practices

Mapping to National Occupational Standards

This unit maps to Apparel Manufacturing Technology NOS 2008

Produce Sample Garments for Manufacture

Unit Reference	F/502/0896
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who read and interpret specifications for sample garments that vary in style, fabric and make up. The job role will involve • Reading and interpreting specifications • Preparing sample garments for making • Producing sample garments This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.4) <i>The learner can:</i>
1. Be able to interpret specifications and communicate with colleagues	1.1. Acquire relevant documents and information 1.2. Examine the specifications to ensure understanding and ability to complete the sample garment 1.3. Liaise and consult with others regarding the specifications for sample garments 1.4. Clarify points and issues arising about the specifications and the resultant sample garments
2. Be able to identify any machinery that could improve the efficiency when completing the sample garment	2.1. If necessary, identify other machines that could be more effective when completing the sample garment 2.2. Inform appropriate personnel of any necessary changes
3. Be able to use suitable work methods to achieve specifications within the timescales specified	3.1. Use suitable handling techniques and work methods to achieve specifications 3.2. Use working practices that are safe and conform to current legislative requirements and codes of practice

	3.3. Diagnose equipment faults correctly and take appropriate corrective action 3.4. Complete the garment within the timescales specified
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Provide Technical Feedback on Sample Garments

Unit Reference	J/502/0897
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who evaluate sample production and outcomes against full production needs, for garments that vary in style, fabric and make up. The job role will involve • Comparing sample production and outcomes against full production needs • Providing feedback to inform the production process This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 3) <i>The learner will:</i>	Assessment Criteria (1.1 to 3.2) <i>The learner can:</i>
1. Be able to evaluate sample production against full production needs	1.1. Evaluate products, reports and other information from the sample production 1.2. Discuss and clarify issues that have arisen from the sample production with the appropriate people 1.3. Compare production needs with the processes, outcomes and issues that have arisen from the sample production 1.4. Document accurately issues arising from the comparison of the sample garment to production needs
2. Be able to communicate information about sample analysis effectively	2.1. Provide information to appropriate personnel from the evaluation of the sample production within required time limits. 2.2. Pass recommendations for amendments to appropriate personnel
3. Be able to ensure final production feasibility	3.1. Modify samples to ensure production feasibility of adaptations

	3.2. Provide information from sample analysis to inform decisions about final production processes
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Handle and Measure Garments to Ensure Compliance with Requirements

Unit Reference	L/502/0898
Level	3
Credit Value	5
Guided Learning (GL)	30 hours
Unit Summary	This unit is for those who identify handling and measuring requirements for different garments that vary in style, fabric and make up, including specialist handling and measuring. The job role will involve - Identifying handling and measuring requirements - Measuring and handling garments This unit must be assessed in the workplace where learners will demonstrate occupational competence.
Learning Outcomes (1 to 4) <i>The learner will:</i>	Assessment Criteria (1.1 to 4.2) <i>The learner can:</i>
1. Be able to prepare for measuring and handling of garments	1.1. Check the specifications with others to identify handling and measuring requirements 1.2. Liaise and consult with others regarding the handling and measuring requirements 1.3. Establish when measuring needs to be carried out and how this should be completed 1.4. Identify and find any special equipment needed to handle the material 1.5. Check any points and issues arising about the handling and measuring requirements
2. Be able to measure and check garments throughout the process	2.1. Handle garments as in the specifications 2.2. Identify any problems handling the fabric when producing the garment
3. Be able to ensure final production feasibility	3.1. Check and measure the garments and relevant parts, ensuring documented specifications are met throughout the production stages, this may include

	• pre-production • during production • post-production • finished product • samples
4. Be able to record and correct any deviations from the specification	4.1. Make a note of any measures that deviate from the specification 4.2. Tell appropriate people of any problems, deviations and necessary changes that come from handling and measuring of the garment
Mapping to National Occupational Standards This unit maps to Apparel Manufacturing Technology NOS 2008	

Recognition of Prior Learning (RPL), Exemptions, Credit Transfers and Equivalencies

Skills and Education Group Awards policy enables learners to avoid duplication of learning and assessment in a number of ways:

- Recognition of Prior Learning (RPL) – a method of assessment that considers whether a learner can demonstrate that they can meet the assessment requirements for a unit through knowledge, understanding or skills they already possess and do not need to develop through a course of learning.
- Exemption - Exemption applies to any certificated achievement which is deemed to be of equivalent value to a unit within a Skills and Education Group Awards qualification but which does not necessarily share the exact learning outcomes and assessment criteria. It is the assessor's responsibility, in conjunction with the Internal Moderator, to map this previous achievement against the assessment requirements of the Skills and Education Group Awards qualification to be achieved in order to determine its equivalence.

Any queries about the relevance of any certificated evidence, should be referred in the first instance to your centre's internal moderator and then to Skills and Education Group Awards.

It is important to note that there may be restrictions upon a learner's ability to claim exemption or credit transfer which will be dependent upon the currency of the unit/qualification and a learner's existing levels of skill or knowledge.

Where past certification only provides evidence that could be considered for exemption of part of a unit, learners must be able to offer additional evidence of previous or recent learning to supplement their evidence of achievement.

- Credit Transfer – Skills and Education Group Awards may attach credit to a qualification, a unit or a component. Credit transfer is the process of using certificated credits achieved in one qualification and transferring that achievement as a valid contribution to the award of another qualification. Units/Components transferred must share the same learning outcomes and assessment criteria along with the same unit number. Assessors must ensure that they review and verify the evidence through sight of:
 - original certificates OR
 - copies of certificates that have been signed and dated by the internal moderator confirming the photocopy is a real copy and make these available for scrutiny by the External Moderator
- Equivalencies – opportunities to count credits from the unit(s) from other qualifications or from unit(s) submitted by other recognised organisations towards the place of mandatory or optional unit(s) specified in the rule of combination. The unit must have the same credit value or greater than the unit(s) in question and be at the same level or higher.

Skills and Education Group Awards encourages its centres to recognise the previous achievements of learners through Recognition of Prior Learning (RPL), Exemption, Credit Transfer and Equivalencies. Prior achievements may have resulted from past or present employment, previous study or voluntary activities. Centres should provide advice and

guidance to the learner on what is appropriate evidence and present that evidence to the external moderator in the usual way.

Further guidance can be found in 'Delivering and Assessing Qualifications' which can be downloaded from the website.

Exemptions

There are no identified exemptions for these qualifications.

Equivalencies

There are no identified equivalencies for these qualifications.

Certification

Learners will be certificated for all units and qualifications that are achieved and claimed.

Skills and Education Group Awards policies and procedures are available on the website.

Glossary of Terms

GL (Guided Learning)

GLH is where the learner participates in education or training under the immediate guidance or supervision of a tutor (or other appropriate provider of education or training). It may be helpful to think – ‘Would I need to plan for a member of staff to be present to give guidance or supervision?’

GLH is calculated at qualification level and not unit/component level.

Examples of Guided Learning include:

- Face-to-face meeting with a tutor
- Telephone conversation with a tutor
- Instant messaging with a tutor
- Taking part in a live webinar
- Classroom-based instruction
- Supervised work
- Taking part in a supervised or invigilated assessment
- The learner is being observed.

TQT (Total Qualification Time)

‘The number of notional hours which represents an estimate of the total amount of time that could reasonably be expected to be required, in order for a learner to achieve and demonstrate the achievement of the level of attainment necessary for the award of a qualification.’ The size of a qualification is determined by the TQT.

TQT is made up of the Guided Learning Hours (GLH) plus all other time taken in preparation, study or any other form of participation in education or training but not under the direct supervision of a lecturer, supervisor or tutor.

TQT is calculated at qualification level and not unit/component level.

Examples of unsupervised activities that could contribute to TQT include:

- Researching a topic and writing a report
- Watching an instructional online video at home/e-learning
- Watching a recorded webinar
- Compiling a portfolio in preparation for assessment
- Completing an unsupervised practical activity or work
- Rehearsing a presentation away from the classroom
- Practising skills unsupervised
- Requesting guidance via email – will not guarantee an immediate response.