

FIELD MANUFACTURING**Review of *Clothing Manufacture* unit standards**

Subfield	Domain	Id
Clothing Manufacture	Apparel Cutting and Sewing	1540, 2739-2748, 2750-2753, 2846-2848, 4838, 4839, 5294, 5295, 5298, 5301-5309, 17817-17822, 20342-20347, 23398, 23399
	Apparel Design and Patternmaking	2826-2835, 2837-2845, 13387, 13388, 22302
	Apparel Production Planning	2749, 2864, 4837, 5310-5313
	Apparel Work Study	5289-5293
	Embroidery	18123-18126
	Leather Garment Manufacture	2609-2628
	Maintain Sewing Machinery	2849-2863

The Apparel and Textile Industry Training Organisation (ATITO) has completed the review of the unit standards listed above.

Date new versions published

June 2009

Planned review date

December 2015

Summary of review and consultation process

Meetings involving ATITO, representatives of the Clothing Sector and Training Providers were held in four locations throughout the country to undertake a review of the unit standards and qualifications in the Clothing Manufacture domain.

The groups were asked to consider the following:

- Feedback which had been received from moderation and Training Advisor feedback.
- The appropriateness of the qualifications and unit standards for the clothing industry of the future.
- The currency of the unit standards and their suitability for existing and future qualifications.
- The appropriateness of unit standards to their domain.
- The accuracy and appropriateness of their content.
- Whether levels and credits were commensurate with performance outcomes and training needs.
- Any gaps in skills and/or knowledge that could be captured by the development of new unit standards.

Main changes resulting from the review

- Purpose statements were altered to make them consistent and ensure they adequately expressed the content of the unit standard.
- Definitions were added to the special notes and terminology was standardised across unit standards.
- Special notes were amended to update references to legislation and remove the reference to BSI standards which are no longer used by industry.
- Range statements were modified to clarify evidence requirements.
- Unit standard 5294 was designated as expiring and unit standard 17821 was suggested as an alternative as they both had very similar content.
- Unit standards 2740, 2749, 2842, 2845, 2864, 5294, and 5311 were designated as expiring as they were no longer fit for purpose.
- Unit standards 2623, 2625, 2626, and 2628 were reclassified to the Apparel Cutting and Sewing Domain and the references to leather were removed from the titles, special notes, elements and range statements.
- Unit standard 2834 was reclassified to the Apparel Cutting and Sewing Domain.
- The credit value for unit standard 2840 was increased to 5 credits.
- The level of unit standard 22302 was increased from 2 to 3 and the credit value was increased from 4 to 6.
- Unit standards 2739 and 17822 were similar and often difficult to interpret for industry. To address this one element was removed from 17822 and its credit value reduced from 10 to 6 credits. This removes the similarity and makes them more assessable.
- The wording of unit standards 25239 and 2834 has been changed so that the differences between the unit standards are more apparent.
- Six new unit standards were developed to meet industry needs.

Unit standards categorised as category C or D expire at the end of December 2010.

Impact on existing provider accreditations

None.

Impact on Accreditation and Moderation Action Plan (AMAP)

None.

Impact on existing qualifications

Qualifications that contain the reviewed standards or classifications are tabled below.

Affected	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following ATITO qualifications are affected by the outcome of this review. The standards listed in **bold** have generated the *Affected* status while the other standards are *not materially affected*. They will updated when reviewed in 2009.

Qualification title	Standard in the qualification
National Certificate in Clothing Manufacture (Design and Patternmaking) (Level 4) [Ref: 0074]	2826, 2827, 2828, 2829, 2831, 2837, 2845
National Certificate in Clothing Manufacture (Mechanic) (Level 4) [Ref: 0075]	2849, 2857, 2863
National Certificate in Clothing Manufacture (Cutting) (level 4) [Ref: 0114]	2739, 2741, 2750, 2848, 4837, 5289, 5295
National Certificate in Clothing Manufacture (Production) (Level 4) [Ref: 0115]	4837, 5289, 5295, 5310, 5312, 5313
National Certificate in Leather Garment Manufacture (Level 3) with specialist strands in Material Selection and Cutting, Sewing and Garment Assembly, and Garment Finishing and Inspection. [Ref: 0147]	2613, 2617, 2618, 2619, 2620, 2621, 2622, 2624, 2625, 2626, 2628, 2744, 2834, 2847, 2848
National Certificate in Industrial Machine Knitting (Advanced Technology – Circular Garment-Length) (Level 5) [Ref: 0160]	5289, 5311
National Certificate in Industrial Machine Knitting (Advanced Technology – Circular Piece-Goods) (Level 5) [Ref: 0161]	5289, 5311
National Certificate in Industrial Machine Knitting (Advanced Technology – Flat Bed) (Level 5) [Ref: 0162]	5289, 5311
National Certificate in Industrial Machine Knitting (Advanced Technology – Flat Bed Fabric Design)) (Level 5) [Ref: 0163]	5289, 5311
National Certificate in Industrial Machine Knitting (Advanced Technology – Full-Fashioned)) (Level 5) with strands in Design, production, and Maintenance [Ref: 0164]	5289, 5311
National Certificate in Industrial Machine Knitting (Advanced Technology – Full-Length Hosiery) (Level 5) [Ref: 0165]	5289, 5311
National Certificate in Industrial Machine Knitting (Advanced Technology – Half-Hose) (Level 5) [Ref: 0166]	5289, 5311
National Certificate in Clothing Manufacture (Cutting) (Level 2) [Ref: 0821]	5305, 17822,
National Certificate in Clothing Manufacture (Cutting) (Level 3) [Ref: 0822]	2739, 2740 , 2744, 2834, 5303, 5304, 5306
National Certificate in Clothing Manufacture (Sewing) (Level 3) [Ref: 0823]	2748, 2753, 2834, , 5294 , 5298,5301
National Certificate in Clothing Manufacture (Basic Garment Assembly) (Level 3) [Ref: 0824]	2834, 17820, 17821
National Certificate in Clothing Manufacture (Embroidery) (Level 2) [Ref: 0841]	18126
National Certificate in Clothing Manufacture (Mechanic) (Level 3) [Ref: 0925]	2748, 2753, 2860, 5304
National Certificate in Clothing Manufacture (Design and Patternmaking) (Level 3) [Ref: 0926]	2834,2835,2839,2840,2841, 2842 , 2847, 13387, 13388
National Certificate in Clothing Manufacture (Commercial Sewing Skills) (Level 3) [Ref: 1162]	20344, 20345, 20346, 20347

Review Categories and changes to classification, title, level, and credits

All changes are in **bold**. Suggested alternative standard is in *italic*.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same Id and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same Id and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new Id
D	Standard will expire and not be replaced

Subfield Clothing Manufacture
Domain Apparel Cutting and Sewing

Id	Title	Level	Credit	Review Category
1540	Set up, adjust, and operate a domestic lockstitch sewing machine	2	3	B
2739	Make markers for plain fabrics Make paper markers for plain fabrics by hand in a commercial manufacturing workplace	4	9	B
2740	Make markers for plain fabrics using an apparel CAD/CAM system	3	9	D
2741	Make block markers for fabrics Make block markers for fabrics in the clothing industry	4	6	B
2742	Make block markers using an apparel CAD/CAM system	4	3	B
2743	Set up and cut fabrics using a computerised fabric cutting machine	3	6	B
2744	Prepare cut work for production Prepare cut work for production in the clothing industry	3	3	B
2746	Sew dissimilar fabrics together using an industrial overlock sewing machine	3	6	B
2747	Sew dissimilar fabrics together using an industrial lockstitch sewing machine	3	6	B
2748	Operate and adjust a semi automatic profile machine to assemble garment parts Operate and adjust semi-automatic profile machinery to assemble garment parts	3	3	B
2750	Lay up striped, checked, and patterned fabrics Lay up striped, checked, and patterned fabrics in the clothing industry	4	6	B
2751	Sew a range of different fabrics using an industrial lockstitch sewing machine	4	9	B
2752	Sew a range of different fabrics using an industrial overlock sewing machine	4	9	B
2753	Operate a fixed cycle semi automatic sewing machine to manufacture garments Operate fixed cycle semi-automatic sewing machinery to manufacture garments	3	3	B

Id	Title	Level	Credit	Review Category
2846	Demonstrate knowledge of industrial apparel cutting and sewing	2	3	B
2847	Demonstrate knowledge of apparel production, finishing, and storage systems Demonstrate knowledge of clothing production, finishing, and storage systems	3	3	B
2848	Select fusible and non-fusible interlinings Select fusible and non-fusible interlinings in the clothing industry	4	5 3	B
4838	Demonstrate knowledge of clothing materials Demonstrate knowledge of clothing materials in the clothing industry	2	3	B
4839	Demonstrate knowledge of sewing room quality requirements	2	3	B
5294	Sew in zip fasteners to specified clothing industry performance standards	3	3	D
17821	<i>Sew zips in garments</i>	3	3	
5295	Compile clothing products design and quality specifications Compile design and quality specifications for clothing products	4	6	B
5298	Use industrial lockstitch sewing machines to specified clothing industry performance standards Use industrial lockstitch sewing machines in a commercial clothing manufacturing environment	3	12	B
5301	Use industrial overlock sewing machines to specified clothing industry performance standards Use industrial overlock sewing machines in a commercial clothing manufacturing environment	3	10	B
5302	Cut single ply material by shears for the clothing industry	2	3	B
5303	Lay apparel fabrics by machine Lay up fabrics by machine in the clothing industry	3	12	B
5304	Cut apparel fabrics using mechanical knives Describe equipment used and cut clothing fabrics using mechanical knives	3	6	B
5305	Lay apparel fabrics by hand Lay up fabrics by hand in the clothing industry	2	9	B
5306	Cut apparel fabrics using a band knife Describe equipment and cut clothing fabrics using a band knife	3	6	B
5307	Manage and organise cutting room labour and resources for the clothing industry	5	9	B

Id	Title	Level	Credit	Review Category
5308	Operate industrial overlock and specialist sewing machines to specified clothing industry standards Operate industrial overlock and specialist sewing machines in a commercial clothing manufacturing environment.	3	12	B
5309	Operate a range of industrial single needle sewing machines to specified clothing industry standards Operate a range of industrial single needle sewing machines in a commercial clothing manufacturing environment	3	9	B
17817	Assemble and sew a complete garment from cut components	3	6	B
17818	Sew collars on garments	3	3	B
17819	Sew pockets in garments	3	3	B
17820	Sew set-in sleeves in garments Sew sleeves in garments	3	3	B
17821	Sew zips in garments	3	3	B
17822	Make markers for plain fabric by hand Make a single size marker for plain fabric by hand under supervision, lay markers, and explain cutting methods	2	10 6	B
20342	Thread and operate an industrial lockstitch sewing machine in a learning environment	2	7	B
20343	Thread and operate an industrial overlock sewing machine in a learning environment	2	5	B
20344	Set up and operate an industrial lockstitch sewing machine in a commercial manufacturing workplace Set up and operate an industrial lockstitch sewing machine in a commercial clothing manufacturing workplace	3	5	B
20345	Use an industrial lockstitch machine to seam and topstitch in a commercial manufacturing workplace Use an industrial lockstitch sewing machine to seam and topstitch in a commercial clothing manufacturing workplace	3	7	B
20346	Set up and operate an industrial overlock sewing machine in a commercial manufacturing workplace Set up and operate an industrial overlock sewing machine in a commercial clothing manufacturing workplace	3	5	B
20347	Use an industrial overlock sewing machine to join materials in a commercial manufacturing workplace Use an industrial overlock sewing machine to join seams in a commercial clothing manufacturing workplace	3	4	B

Id	Title	Level	Credit	Review Category
23398	Set up and operate an industrial walking foot sewing machine in a commercial manufacturing workplace Set up and operate an industrial walking foot sewing machine in a commercial clothing manufacturing workplace	3	5	B
23399	Sew a range of different fabrics using an industrial walking foot sewing machine in a commercial manufacturing workplace Sew different fabrics using an industrial walking foot sewing machine in a commercial clothing manufacturing workplace	4	9	B
25236	Assemble and sew a complete garment from cut components in a commercial manufacturing workplace	4	12	New
25237	Compile written garment assembly instructions in the clothing industry	4	22	New
25239	Demonstrate knowledge of commercial garment assembly operations and sequences in a commercial manufacturing workplace	4	9	New
25240	Demonstrate knowledge of the factors that influence the cost of a garment	2	3	New

Domain Apparel Design and Patternmaking

Id	Title	Level	Credit	Review Category
2826	Grade patterns for men's structured jackets and coats Grade patterns for men's structured outerwear	4	6	B
2827	Manipulate patterns for men's structured outerwear Manipulate a pattern block for men's structured outerwear to produce a pattern	4	9	B
2828	Grade patterns for women's structured jackets and coats Grade patterns for women's structured outerwear	4	9 6	B
2829	Manipulate children's standard pattern blocks to produce garment patterns Manipulate children's pattern blocks to produce a pattern	4	9	B
2830	Grade patterns for children's clothing	4	6	B
2831	Manipulate patterns for women's structured outerwear Manipulate a pattern block for women's structured outerwear to produce a pattern	4	9	B
2832	Measure people for outerwear fitment	3	3	B
2833	Measure people for underwear fitment	4	4	B

Id	Title	Level	Credit	Review Category
2835	Construct garment pattern blocks for children's clothing Construct pattern blocks for children's clothing	3	12	B
2837	Construct pattern blocks for non-structured underwear, lingerie, and swimwear Construct pattern blocks for unstructured underwear, lingerie, and swimwear	4	9	B
2838	Construct pattern blocks for structured underwear, lingerie, and swimwear	4	12	B
2839	Grade adult garment patterns for trousers and skirts Grade patterns for adults' trousers and skirts	3	3	B
2840	Input garment patterns to a CAD/CAM system Input garment patterns into a clothing CAD/CAM system and plot patterns	3	3	B
2841	Grade garment patterns using a clothing CAD/CAM system Grade patterns using a clothing CAD/CAM system	3	3	B
2842	Select lace for underwear and outerwear garments	3	4	D
2843	Design men's structured jackets	4	6	B
2844	Design women's structured jackets	4	6	B
2845	Construct a complete production garment pattern from a design brief	5	6	D
13387	Construct garment pattern blocks for women's outerwear Construct pattern blocks for women's outerwear	3	6	B
13388	Construct garment pattern blocks for men's outerwear Construct pattern blocks for men's outerwear	3	6	B
22302	Construct and manipulate basic pattern blocks for women's outerwear	2 3	4 6	B
25238	Cut out and produce completed patterns for manufacturing clothing	3	9	New

Domain Apparel Production Planning
Apparel Cutting and Sewing

Id	Title	Level	Credit	Review Category
2834	Demonstrate knowledge of garment construction techniques and sequences Demonstrate knowledge of garment construction in a learning environment	3	6	B

Domain Apparel Production Planning

Id	Title	Level	Credit	Review Category
2749	Schedule, and accept materials and trims for apparel production	5	12	D
2864	Select apparel production systems	5	6	D
4837	Monitor quality controls and procedures in apparel production Monitor quality controls and procedures in clothing production	4	15	B
5310	Balance production lines to smooth production in the clothing industry Balance production lines to achieve consistent production in the clothing industry	4	6	B
5311	Develop and install labour production planning systems for the clothing industry	5	9	D
5312	Compile and use bills of labour for sewn products in the clothing industry Compile and use Bills of Labour for sewn products in the clothing industry	4	6	B
5313	Compile and use bills of materials for sewn products in the clothing industry Compile and use Bills of Materials for sewn products in the clothing industry	4	6	B
25241	Prepare garment specification sheets in the clothing industry	4	10	New

Domain Apparel Work Study

Id	Title	Level	Credit	Review Category
5289	Produce labour recovery reports for a production department in the clothing industry Produce and evaluate labour recovery reports for a production department in the clothing industry	4	3	B
5290	Prepare for a time study in the clothing industry	3	3	B
5291	Carry out a time study using the 0-100 BSI rating scale in the clothing industry Carry out a time study in the clothing industry	4	9	B
5292	Analyse time studies and issue standard times in the clothing industry	4	6	B
5293	Demonstrate knowledge of work study techniques for the clothing industry	3	6	B

Domain Embroidery

Id	Title	Level	Credit	Review Category
18123	Prepare fabric for embroidery	2	5	B
18124	Prepare and operate an embroidery machine	2	10	B

Id	Title	Level	Credit	Review Category
18125	Identify embroidery faults and take corrective action	2	10	B
18126	Inspect, finish and pack embroidered goods Inspect, remove stains from, and finish and pack embroidered goods	2	5	B

Domain Leather Garment Manufacture

Id	Title	Level	Credit	Review Category
2609	Receive skins into store and verify order	2	3	B
2610	Inspect skins for quality	4	4	B
2611	Select skins for use in a leather garment	4	6	B
2612	Mark pattern for a leather garment	3	3	B
2613	Manipulate and mark patterns for non-standard size Manipulate and mark a standard pattern to a non-standard size	4	4	B
2614	Cut garment pieces from skin for a leather garment	2	3	B
2615	Cut garment interlining and lining for a leather garment	2	3	B
2616	Shave seams of sheepskin garment pieces	2	3	B
2617	Fuse interlining to leather garment pieces with fusing press or iron and prepare garment pieces for sewing Fuse interlining to leather garment pieces with fusing press or iron and assemble garment pieces for sewing	2	3	B
2618	Sew straight and top stitch seams in leather in a commercial manufacturing workplace Sew straight and top stitch seams in leather in a commercial clothing manufacturing workplace	3	3	B
2619	Sew sleeves in a leather garment in a commercial manufacturing workplace Sew sleeves in a leather garment in a commercial clothing manufacturing workplace	3	4	B
2620	Sew pockets in a leather garment in a commercial manufacturing workplace Sew pockets in a leather garment in a commercial clothing manufacturing workplace	3	4	B
2621	Sew a collar on a leather garment in a commercial manufacturing workplace Sew collars on leather garments in a commercial clothing manufacturing workplace	3	4	B

Id	Title	Level	Credit	Review Category
2622	Assemble and sew cut components to make a leather garment in a commercial manufacturing workplace Assemble and sew cut components to make a leather garment in a commercial clothing manufacturing workplace	3	6	B
2624	Sew zips in a leather garment in a commercial manufacturing workplace Sew zips in leather garments in a commercial clothing manufacturing workplace	3	3	B
2627	Finish and groom a sheepskin garment	2	3	B

Domain Leather Garment Manufacture
 Apparel Cutting and Sewing

Id	Title	Level	Credit	Review Category
2623	Locate and make buttonholes in a leather garment in a commercial manufacturing workplace Locate and make buttonholes in a garment in a commercial manufacturing workplace	3	4	B
2625	Fit garment with buttons, domes and decorative attachments Attach fastenings and decorative attachments to a garment	2	3	B
2626	Hand press a leather garment Hand press a garment	3	3	B
2628	Check leather garment is made to design and product specification Check garment is made to design and product specification	4	6	B

Domain Maintain Sewing Machinery

Id	Title	Level	Credit	Review Category
2849	Evaluate industrial sewing machine attachments, folders, and guides Evaluate and select industrial sewing machine attachments, folders, and guides	4	6	B
2850	Maintain and adjust industrial sewing machines	3	6	B
2851	Service lockstitch sewing machines	3	6	B
2852	Service fixed cycle lockstitch sewing machines	4	12	B
2853	Service chainstitch buttonhole sewing machines	4	6	B
2854	Service overlock sewing machines	3	6	B
2855	Service chainstitch sewing machines	4	12	B
2856	Service fixed cycle chainstitch sewing machines	4	3	B

Id	Title	Level	Credit	Review Category
2857	Maintain pneumatic and electronic sewing machinery Maintain and adjust pneumatic and electronic sewing machinery	4	18	B
2858	Maintain fabric cutting equipment	3	4	B
2859	Service lockstitch buttonhole sewing machines	4	3	B
2860	Maintain fabric laying up (spreading) and ancillary cutting room equipment Maintain fabric laying up and ancillary cutting room equipment	3	3	B
2861	Maintain computerised cutting equipment	4	3	B
2862	Service safety stitch sewing machines	4	6	B
2863	Maintain computerised laying up (spreading) equipment Maintain computerised laying up equipment	4	3	B