

FIELD ENGINEERING AND TECHNOLOGY and MANUFACTURING**Review and reclassification of *Motor Trimming* and *Outdoor Fabric Products* unit standards**

Field	Subfield	Domain	Id
Engineering and Technology	Motor Industry	Motor Trimming	8298-8322
Manufacturing	Outdoor Fabric Products	Canvas Fabrication	1314-1327, 5021-5023, 16704
		Leather Goods Manufacture	14144, 14145
		Sailmaking	11800-11814

The NZ Motor Industry Training Organisation has completed the review of the unit standards listed above.

Date new versions published

March 2007

Planned review date

December 2011

Summary of review and consultation process

This review is part of a major review of the motor industry and outdoor fabric product qualifications (QReview) being conducted by NZ Motor Industry Training Organisation (MITO). The QReview Steering Group endorsed these standards after major consultation was carried out covering a wide range of stakeholders through focus group meetings and followed by industry wide consultation. These standards will form part of the new qualifications for Industrial Textile Fabrication.

Main changes resulting from the review

- The Motor Trimming, Canvas Fabrication, and Sailmaking standards have been reclassified to domains within the new Industrial Textile Fabrication subfield.
- Many industry specific standards have been made generic to the Industrial Textile Fabrication sector and have been reclassified to the Industrial Textile Fabrication Core Skills domain.
- Standards 1321, 5023, 8299, 8314, 8315, 8316, 8320 and 11800 will expire and not be replaced.
- Standards 1314-1319, 1322-1323, 8298, 8300-8303, 8306-8309, 8317 and 8322 have been replaced and reclassified.
- Standard 1314 was replaced by standards 23479, 23480, 23491, and 23492.
- Standard 8298 was replaced by standards 23479 and 23480.
- Standards 8304, 8310, 8312, 8321 and 11806 have been reclassified.
- Standards 1320, 1324-1327, 5021, 5022, 8305, 8311, 8313, 8318, 8319, 14145 and 16704 have had changes to the title and have been reclassified.

- Standard 8321 has increased from level 2 to level 3.
- Standard 16704 has increased from level 3 to level 4 and the credits have decreased from 7 to 2.
- The credits for standard 14145 have increased from 2 to 3.
- The credits for standard 11806 have decreased from 15 to 10.
- 19 new standards have been developed.

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

Impact on existing provider accreditations

Current Accreditation for			Accreditation extended to		
Nature of accreditation	Classification or Id	Level	Nature of accreditation	Classification or Id	Level
Subfield	Motor Industry	Any	Domain	Vehicle Trimming and Upholstery	Same
Subfield	Motor Industry	2	Standard	23479	2
			Standards	8321, 23480	3
		3	Standard	23479	2
			Standards	14145, 23480	3
		4	Standard	23479	2
			Standards	14145, 23480	3
			Standards	1325, 1326	4
		5	Standard	23479	2
			Standards	14145, 23480	3
			Standards	1325, 1326	4
Domain	Motor Trimming	2	Domain	Vehicle Trimming and Upholstery	2
Domain	Motor Trimming	2	Standard	23479	2
			Standards	8321, 23480	3
Subfield	Outdoor Fabric Products	Any	Subfield	Industrial Textile Fabrication	Same
Domain	Canvas Fabrication	2	Domains	Canvas Fabrication, Industrial Textile Fabrication Core Skills	2
Domain	Canvas Fabrication	2	Standards	23480, 23491, 23492	3
Standard	1318	3	Standards	23487, 23488, 23493, 23494	3
Standard	1319	3	Standards	23489, 23490	3
Standard	1321	3	Standard	23524, 23525	3

Impact on Accreditation and Moderation Action Plan (AMAP)

AMAP 0014 has been updated to reflect the changes made to the standards.

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 NZ Motor Industry Training Organisation qualifications are affected by the outcome of this review, with the items that generated the affected status in **bold**. These qualifications will be updated as part of the current QReview.

Qualification title	Standard in the qualification
National Certificate in Motor Industry (Motor Trimming) [Ref: 0024]	8298-8303 , 8304, 8306-8309 , 8310, 8311, 8312-8315 , 8317 , 8318, 8321 , 8322
National Certificate in Canvas Fabrication [Ref: 0079]	1314-1319 , 1320, 1321 , 1323 , 1324 , 5022, 16704
National Certificate in Sailmaking [Ref: 0374]	1314-1319 , 1320, 1322 , 1323 , 1325-1327, 5021, 5022, 5023 , 11800 , 11801-11805, 11806 , 11807-11814
National Certificate in Manufacturing (Leatherwork) with strands in Saddlemaking, and Leather Goods Manufacture [Ref: 0471]	1316-1318 , 1320, 1323 , 1325, 1326, 14144, 14145

The following NZ Motor Industry Training Organisation qualification is not materially affected by the changes. This will be updated as part of the QReview.

Qualification title	Standard in the qualification
National Certificate in Motor Industry (Coachbuilding) with strands in Passenger Service Vehicles, Commercial Vehicles, and Motorhomes and Caravans [Ref: 0413]	8311

Summary of main changes

All changes are in **bold**.

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

Field Engineering and Technology
 Subfield Motor Industry
 Field **Manufacturing**
 Subfield **Industrial Textile Fabrication**

Id	Domain	Title	Level	Credit	Review Category
8298*	Motor Trimming	Identify, use, and maintain tools and equipment in the motor trimming industry	2	2	C
23479 and 23480	Industrial Textile Fabrication Core Skills	Demonstrate knowledge of tools and equipment used in the industrial textile fabrication industry Select and use tools and workshop equipment in the industrial textile fabrication industry	2 3	3 6	
8299	Motor Trimming	Identify, use, and store materials, and make a template, in the motor trimming industry	3	3	D
8300	Motor Trimming	Repair a seat in the motor trimming industry	3	6	C
23520 and 23521	Vehicle Trimming and Upholstery	Demonstrate knowledge of motor vehicle seats in the vehicle trimming industry Repair motor vehicle seats in the vehicle trimming industry	3 3	2 6	
8301 and 8317	Motor Trimming	Make a back rest and base cover for a vehicle seat	3	5	C
23522 and 23523	Vehicle Trimming and Upholstery	Make and fit a squab in the motor trimming industry Demonstrate knowledge of squabs, cushions, and buttons for a motor vehicle seat Make and fit a squab and cushion cover for a motor vehicle seat	3 3 3	4 2 4	C
8302 and 1321	Motor Trimming	Carry out pleating, fluting, piping, and quilting operations in the motor trimming industry	3	6	C
23524 and 23525	Canvas Fabrication Vehicle Trimming and Upholstery	Apply quilting and fluting to canvas fabrication Demonstrate knowledge of pleating, fluting, piping, and quilting in the vehicle trimming and related industries Carry out pleating, fluting, piping, and quilting in the vehicle trimming and related industries	3 3 3	3 2 3	C

Id	Domain	Title	Level	Credit	Review Category
8310	Motor Trimming Vehicle Trimming and Upholstery	Recover and repair a damaged vehicle dash panel Re-cover and repair a damaged vehicle dash panel	4	4	B
8311	Motor Trimming Vehicle Trimming and Upholstery	Carry out motor trimming carpentry requirements and make and fit a vehicle interior trim panel Carry out vehicle trimming carpentry requirements, and make and fit a vehicle interior trim panel	4	4	B
8312	Motor Trimming Vehicle Trimming and Upholstery	Make and repair a convertible top and side curtains for a vehicle	4	12 10	B
8313	Motor Trimming Vehicle Trimming and Upholstery	Repair damaged vinyl by welding in the motor trimming industry Repair damaged vinyl by welding in the vehicle trimming industry	4	4 3	B
8314	Motor Trimming	Make and fit a tonneau and hood cover in the motor trimming industry	3	4	D
8315	Motor Trimming	Make and fit a range of protective covers in the motor trimming industry	3	4	D
8316	Motor Trimming	Make and fit a vinyl roof for a vehicle in the motor trimming industry	4	4	D
8318	Motor Trimming Vehicle Trimming and Upholstery	Make buttons and carry out buttoning in the motor trimming industry Make buttons and carry out buttoning in the vehicle trimming and related industries	2	1	B
8319	Motor Trimming Vehicle Trimming and Upholstery	Identify damage, write a job sheet, and prepare an estimate and quotation for motor trimming Identify damage, write a job sheet, and prepare an estimate and quotation for vehicle trimming	5	7	B

Id	Domain	Title	Level	Credit	Review Category
8320	Motor Trimming	Fit a range of vehicle accessories in the motor trimming industry	3	2	D
8321	Motor Trimming	Make and fit a lumbar support for a vehicle seat and rectify a damaged mechanical lumbar support	2	2	B
	Vehicle Trimming and Upholstery	Make and fit a lumbar support for a motor vehicle seat and rectify a damaged mechanical lumbar support	3		
8322	Motor Trimming	Remove, replace, and adjust, seals, welts, edge trims and rubbers in the motor trimming industry	3	3	C
23531 and 23532	Vehicle Trimming and Upholstery	Demonstrate knowledge of seals, welts, edge trims, and rubbers in the vehicle trimming industry	3	2	
		Remove and replace seals, welts, edge trims, and rubbers; and adjust seals and rubbers in the vehicle trimming industry	3	3	

* Standards 23479 and 23480, combined with standards 23491 and 23492 also replaced standard 1314.

Field Manufacturing
Subfield Outdoor Fabric Products
Domain Canvas Fabrication
Subfield Industrial Textile Fabrication
Domain Industrial Textile Fabrication Core Skills

Id	Title	Level	Credit	Review Category
1314*	Operate hand tools and machines used in canvas fabrication	2	6	C
23479	Demonstrate knowledge of tools and equipment used in the industrial textile fabrication industry	2	3	
23480	Select and use tools and workshop equipment in the industrial textile fabrication industry	3	6	
23491 and 23492	Demonstrate knowledge of hand sewing materials in the industrial textile fabrication industry	3	2	
	Hand sew materials and finish rope work in the industrial textile fabrication industry	3	5	
1315	Handle and identify materials used in canvas fabrication	3	3	C
23495	Demonstrate knowledge of materials used in the industrial textile fabrication industry	3	4	

Id	Title	Level	Credit	Review Category
1316 23481 23482 23483 and 23484	Perform seaming and finishing operations in canvas fabrication Demonstrate knowledge of seaming and finishing in the industrial textile fabrication industry Perform seaming and finishing operations in the industrial textile fabrication industry Demonstrate knowledge of reinforcements and attachments used in the industrial textile fabrication industry Fit reinforcements and attachments used in the industrial textile fabrication industry	3 3 3 3 3	12 2 7 2 7	C
1317 23485 and 23486	Pack and present product on completion of canvas fabrication Demonstrate knowledge of packing and presenting product on completion of industrial textile fabric product work Pack and present product on completion of industrial textile fabric product work	2 2 2	3 2 2	C
1318 23487 23488 23493 and 23494	Measure, mark out and cut material for production by canvas fabrication Demonstrate knowledge of measuring and marking material, and making templates for industrial textile fabrication Identify job details, and measure and mark out material for industrial textile fabrication Demonstrate knowledge of the cutting and shaping of materials in the industrial textile fabrication industry Cut and shape material in the industrial textile fabrication industry	3 3 3 3 3	6 3 6 2 7	C
1319 23489 and 23490	Set lockstitch sewing machine for canvas fabrication Demonstrate knowledge of sewing machines used in the industrial textile fabrication industry Operate a sewing machine in the industrial textile fabrication industry	3 3 3	4 2 10	C
1320	Repair damaged product in canvas fabrication Repair damaged product in the industrial textile fabrication industry	3	6	B

Id	Title	Level	Credit	Review Category
1322	Operate textile welding machine used in canvas fabrication	3	6	C
23499	Demonstrate knowledge of fabric welding in the industrial textile fabrication industry	3	4	
23500	Operate a high frequency welding machine in the industrial textile fabrication industry	3	4	
23501 and	Operate a hot air welder in the industrial textile fabrication industry	3	4	
23502	Operate a hot wedge welder in the industrial textile fabrication industry	3	4	
1323	Select materials for performance requirements of canvas fabrication	4	12	C
23508	Demonstrate knowledge of industrial textile fabrication materials for performance requirements	4	6	
and				
23509	Select industrial textile fabrication materials to meet performance requirements	4	7	
1324	Determine permeability and flame retardancy of enterprise materials used in canvas fabrication	3	3	B
	Determine permeability and flame retardancy of materials used in industrial textile fabrication	4		
1325	Establish product design and specification for canvas fabrication	4	12	B
	Establish product design and job specifications for industrial textile fabrication			
1326	Make up patterns used for canvas fabrication	4	6	B
	Develop and make up patterns in the industrial textile fabrication industry			
1327	Estimate job costs and quote to client for a canvas fabrication	4	9	B
	Estimate job costs and quote to customer for industrial textile fabrication products			
5021	Produce detailed design drawing for outdoor canvas fabrication production	4	6	B
	Produce detailed design drawings for industrial textile fabrication products			
5022	Identify and confirm job specifications for canvas fabrication production	3	2	B
	Identify and confirm job specifications in the industrial textile fabrication industry			
5023	Produce a scale model and cost an article from detailed drawings for outdoor canvas fabrication production	4	12	D

Id	Title	Level	Credit	Review Category
16704	Draw and interpret sketches and construct geometric shapes for canvas fabrication production Interpret sketches and construct geometric shapes for industrial textile fabrication production	3 4	7 2	B

* Standards 23479 and 23480 also replaced standard 8298.

Subfield Outdoor Fabric Products

Id	Domain	Title	Level	Credit	Review Category
14144	Leather Goods Manufacture	Identify the quality, and assess the usability of leather for costing purposes Select leather quality, and assess the usability of leather for costing purposes	4	8	B
14145	Leather Goods Manufacture Industrial Textile Fabrication Core Skills	Identify and fit zips in the leather goods manufacture and saddlemaking industries Identify, remove, and fit zips in the industrial textile fabrication industry	3	2 3	B

Subfield Outdoor Fabric Products

Domain Sailmaking

Subfield **Industrial Textile Fabrication**

Id	Domain	Title	Level	Credit	Review Category
11800	Sailmaking	Carry out calculations in the sailmaking industry	3	4	D
11801	Sailmaking	Modify and test a sail in the sailmaking industry	4	15	B
11802	Sailmaking	Demonstrate knowledge of boat rigging in the sailmaking industry	2	4	B
11803	Sailmaking	Make and fit patches to sails in the sailmaking industry	2	5	B
11804	Sailmaking	Measure, mark out, and make covers in the sailmaking industry	3	10	B
11805	Sailmaking	Repair a damaged sail in the sailmaking industry	3	8	B
11806	Sailmaking Industrial Textile Fabrication Core Skills	Make and repair a boat cockpit canopy and side curtains	4	15 10	B

Id	Domain	Title	Level	Credit	Review Category
11807	Sailmaking	Identify job requirements, draw a scale plan, and make a sail pattern in the sailmaking industry	4	8	B
11808	Sailmaking	Identify requirements and design a sail in the sailmaking industry	5	20	B
11809	Sailmaking	Measure, mark out, and cut material for sail production in the sailmaking industry	3	12	B
11810	Sailmaking	Assemble and stick sail panels together in the sailmaking industry	4	16	B
11811	Sailmaking	Carry out second layout measurement check and trim in the sailmaking industry	4	15	B
11812	Sailmaking	Sew materials in the sailmaking industry	3	8	B
11813	Sailmaking	Handwork materials in the sailmaking industry Hand work materials in the sailmaking industry	3	15	B
11814	Sailmaking	Set up and cut materials using a computerised plot cutter in the sailmaking industry	3	5	B

Subfield Industrial Textile Fabrication
Domain Canvas Fabrication

Id	Title	Level	Credit	Review Category
23515	Demonstrate knowledge of terminology used in the canvas fabrication and related industries	2	2	New
23516	Make a selection of articles under supervision in the canvas fabrication industry	3	15	New
23517	Make up aluminium framing for a canvas fabrication application	4	10	New
23518	Make up steel framing for a canvas fabrication application	4	10	New

Domain Industrial Textile Fabrication Core Skills

Id	Title	Level	Credit	Review Category
23478	Carry out personal workplace requirements in the industrial textile fabrication industry	2	5	New
23496	Demonstrate knowledge of freehand sketching and geometric shapes, and draw to scale for industrial textile fabrication	3	5	New
23497	Demonstrate knowledge of zips used in the industrial textile fabrication industry	3	2	New
23498	Demonstrate knowledge of computer aided design (CAD) in the industrial textile fabrication industry	3	2	New

Id	Title	Level	Credit	Review Category
23503	Demonstrate knowledge of developing patterns in the industrial textile fabrication industry	4	2	New
23504	Describe adhesives, solvents, and hazardous materials used in the industrial textile fabrication industry	3	3	New
23505	Use adhesives, solvents, and hazardous materials in the industrial textile fabrication industry	3	3	New
23506	Demonstrate knowledge of quality control standards in the industrial textile fabrication industry	3	2	New
23507	Apply quality standards in the industrial textile fabrication industry	4	4	New
23510	Demonstrate knowledge of establishing product design and job specifications for industrial textile fabrication	4	2	New
23511	Design, measure, and make a selection of articles in the industrial textile fabrication industry	4	10	New
23512	Demonstrate knowledge of quality concepts in the industrial textile fabrication industry	4	4	New
23513	Demonstrate knowledge of job specifications for the industrial textile fabrication industry	3	2	New
23514	Demonstrate knowledge of legislation and safe work practices in the industrial textile fabrication industry	3	4	New

Subfield Industrial Textile Fabrication
Domain Sailmaking

Id	Title	Level	Credit	Review Category
23519	Demonstrate knowledge of the sail construction process in the sailmaking industry	3	4	New