

Thread and operate an industrial lockstitch sewing machine in a learning environment

Level 2

Credits 7

Purpose People credited with this unit standard are able to: thread, control, lubricate and clean, set and adjust an industrial lockstitch machine for desired stitch formation and fabric thickness; join material using straight and curved seams; and operate an industrial lockstitch sewing machine in a learning environment.

Subfield Clothing Manufacture

Domain Apparel Cutting and Sewing

Status Registered

Status date 19 June 2009

Date version published 19 June 2009

Planned review date 31 December 2015

Entry information Open.

Replacement information This unit standard replaced unit standard 5296 and unit standard 5297.

Accreditation Evaluation of documentation by NZQA and industry.

Standard setting body (SSB) Competenz

Accreditation and Moderation Action Plan (AMAP) reference 0030

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Special notes

- 1 This unit standard is intended for people who are learning industrial sewing in a school or early tertiary learning environment, and provides the basis for further development of skills in Unit 20344, *Set up and operate an industrial lockstitch sewing machine in a commercial manufacturing workplace* and Unit 20345, *Use an industrial lockstitch machine to seam and topstitch in a commercial manufacturing workplace*.

- 2 Performance of the elements must comply with the Health and Safety in Employment Act 1992, and its subsequent amendments.
- 3 **Definitions**

Training instructions refer to the guidelines and procedures, either written or oral, specified by the candidate's tutor/trainer in relation to the product or garment being sewn. These instructions must be made known to the candidate prior to assessment against this unit standard.

Workroom safety requirements refer to the safety procedures that apply in the candidate's school or early tertiary learning environment.

Lockstitch is sometimes known as plainsew or single needle and refers to the traditional or standard type of stitch produced by a domestic or industrial sewing machine.

Elements and performance criteria

Element 1

Thread an industrial lockstitch sewing machine.

Performance criteria

- 1.1 Worn and damaged needles are replaced according to manufacturer's specifications.
- 1.2 Industrial bobbins or spools are removed, rewound, and replaced to manufacturer's specifications.
- 1.3 The industrial machine is threaded up to manufacturer's specifications, and tensions are set according to the material to be sewn.

Element 2

Control an industrial lockstitch sewing machine.

Performance criteria

- 2.1 Industrial hand and foot controls are used to sew backward and forward according to training instructions.
- 2.2 Functional stitching elements are named and described for an industrial lockstitch machine.

Element 3

Lubricate and clean an industrial lockstitch sewing machine.

Performance criteria

- 3.1 Parts are lubricated according to manufacturer's specifications using the recommended lubricants.

- 3.2 All lint is removed from working parts, using supplied tools and equipment, to manufacturer's specifications.
- 3.3 All maintenance procedures comply with workroom safety requirements.

Element 4

Set and adjust an industrial lockstitch sewing machine for desired stitch formation and fabric thickness.

Performance criteria

- 4.1 Stitch formation is drawn or explained, and the industrial lockstitch machine is adjusted for different fabric thickness.
- 4.2 Top and bottom threads are compatible, and their relationship is explained in terms of product or garment quality requirements.
- 4.3 Machine is threaded, tested and adjusted in accordance with training instructions.

Element 5

Operate an industrial lockstitch sewing machine.

Performance criteria

- 5.1 Machine foot is correct for fabric and seam used, and changed where necessary.
- 5.2 Sewing practice meets workroom safety requirements.
- 5.3 Sewing is removed from machine according to training instructions.
- 5.4 Thread is cut flush using the snips or auto cutter in accordance with training instructions.
- 5.5 Sewn line is straight.
- Range minimum 30 cm.

Element 6

Join material using straight and curved seams.

Performance criteria

- 6.1 Materials are stitched in accordance with training instructions.
- Range stitching parallel, edge and seams straight, seams flat, ends meet, stitch tension even.

- 6.2 Corners are sewn to in accordance with training instructions.
- Range edges, both sides.
- 6.3 Topstitch and edgestitch sewing is performed in accordance with training instructions.
- Range parallel to seam edge, seams flat.
- 6.4 Shapes are clipped and bagged out after joining in accordance with training instructions.
- Range excess material removed, corners sharp and clean, material undamaged.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact Competenz info@competenz.org.nz if you wish to suggest changes to the content of this unit standard.