

Set up and operate an industrial lockstitch sewing machine in a commercial clothing manufacturing workplace

Level 3

Credits 5

Purpose People credited with this unit standard are able to: set up; control; lubricate and clean; set and adjust for desired stitch formation and fabric density; and operate an industrial lockstitch machine in a commercial clothing manufacturing workplace.

Subfield Clothing Manufacture

Domain Apparel Cutting and Sewing

Status Registered

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Entry information Open.

Accreditation Evaluation of documentation and visit 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 Performance of the elements must comply with the Health and Safety in Employment Act 1992.
- 2 Definitions
Lockstitch is sometimes known as plainsew or single needle and refers to the traditional or standard type of stitch produced by industrial and domestic sewing machines.

Workplace performance criteria refer to the expected standard and speed of performance as set by the quality control management in the candidate's workplace. These criteria are determined by the construction of the garment, the fabric being used and the quality standards that apply in the candidate's workplace. These expectations must be explained and made available to the candidate prior to assessment.

Product, style or garment specifications refer to the documentation that accompanies each manufacturing order. This documentation sets out the fabric to be used for the garment, the size range of the order, the garment assembly sequence, garment finishing procedures, and the garment component specifications.

Workplace procedures refer to the verbal or documented procedures for performing work activities and include health and safety, operational, environmental, and quality management requirements. They may refer to manuals, manufacturer's specifications, codes of practice, or policy statements.

Elements and performance criteria

Element 1

Set up an industrial lockstitch sewing machine in a commercial clothing manufacturing workplace.

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 in a commercial clothing manufacturing workplace.

Performance criteria

- 2.1 Industrial hand and foot controls are used to sew backward and forward according to product specifications.

Range machine speed meets workplace performance criteria.
- 2.2 Functional stitching elements and timing relationships are described for an industrial lockstitch machine.

Element 3

Lubricate and clean an industrial lockstitch sewing machine in a commercial clothing manufacturing workplace.

Performance criteria

- 3.1 Parts are lubricated according to manufacturer's specifications using the recommended lubricants for an industrial machine.
- 3.2 All lint is removed from working parts, using supplied tools and equipment, to manufacturer's specifications for an industrial machine.
- 3.3 All maintenance procedures comply with workplace safety requirements.

Element 4

Set and adjust an industrial lockstitch sewing machine for desired stitch formation and fabric density in a commercial clothing manufacturing workplace.

Performance criteria

- 4.1 Stitch formation is drawn or explained, and the industrial lockstitch machine adjusted for different fabric densities.
- 4.2 Top and bottom threads are compatible, and their relationship is explained in terms of workplace performance criteria.
- 4.3 Faulty stitches are identified, and the industrial machine is adjusted to meet product specifications and workplace performance criteria.
- 4.4 Machine is threaded, tested, and adjusted where necessary to meet product specifications.

Element 5

Operate an industrial lockstitch sewing machine to workplace performance criteria in a commercial clothing manufacturing workplace.

Performance criteria

- 5.1 Sewing is removed from machine according to workplace performance criteria.
- 5.2 Thread is cut flush using the snips or auto cutter according to product specifications.
- 5.3 Sewn line is straight and sewn at speed to workplace performance criteria.
Range minimum 30 cm.
- 5.4 Work practice is in accordance with workplace procedures.

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.