



Australian Government

Department of Education, Employment and Workplace Relations

LMTDE3007A Demonstrate features of digitised embroidery machines

Release: 1

LMTDE3007A Demonstrate features of digitised embroidery machines

Modification History

New unit

Unit Descriptor

This unit of competency covers the skills and knowledge required to demonstrate features of digitising and computerised embroidery equipment in a retail, commercial or industry setting.

Application of the Unit

The unit includes the demonstration of program and machine features and working requirements to customers. It typically applies in a retail, commercial or industry environment where the worker is responsible for sales advice and service of specialised digitising and computerised embroidery equipment. It requires skills to be able to demonstrate features and options available for the user.

Embroidery machines used in completion of this unit may include domestic (single or multi-needle) or commercial (single or multi-head) machines.

This unit requires the application of skills associated with planning and organising to select and demonstrate features of associated technology. Problem-solving skills are required to determine required program features to achieve specifications and address individual customer user requirements. Communication skills are used to refer to relay information and provide service. Self-management skills are used to ensure safe use of technology and conformance of own work to quality standards.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

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| 1 | Identify customer requirements | 1.1 | Intended uses and priorities for equipment are identified and matched to machine selection |
| | | 1.2 | Customer requirements are established |
| | | 1.3 | Information resources are accessed and selected |
| 2 | Explain and demonstrate features of embroidery machine | 2.1 | Machine features are identified and functions described and demonstrated |
| | | 2.2 | Machine preparation requirements are described and demonstrated |
| | | 2.3 | Basic care and maintenance requirements are described and demonstrated |
| | | 2.4 | Typical problems and their remedies are described |
| 3 | Explain and demonstrate digitising functions | 3.1 | Digitising <i>software</i> functions are described and demonstrated |
| | | 3.2 | Suitability of images for digitising and software limitations in processing designs are described |
| | | 3.3 | The range of embroidery outcomes and effects are described and illustrated in samples or images |
| | | 3.4 | Typical problems, software limitations and their solutions are described |

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| 4 | Demonstrate embroidery production | 4.1 | Image is selected and digitised for production |
| | | 4.2 | Relevant software options to digitise and edit images and text are demonstrated |
| | | 4.3 | Stitch conversion process is demonstrated |
| | | 4.4 | Fills, colours and outlines are demonstrated |
| | | 4.5 | File saving and documentation are demonstrated |
| | | 4.6 | Completed design is exported to the machine ready for stitching |
| | | 4.7 | Preparation of machine is demonstrated |
| | | 4.8 | Fabric, stabiliser, toppings and backings, <i>needles, thread</i> and hoop types are selected and used according to the sample requirements |
| | | 4.9 | Embroidery sample is produced and process explained to customer |
| | | 4.10 | Work is conducted according to <i>workplace procedures</i> and <i>occupational health and safety (OHS) practices</i> |
| 5 | Confirm customer understanding | 5.1 | Customer understanding of key features of the equipment and process is confirmed |
| | | 5.2 | Questions are invited and responded to |
| | | 5.3 | Customer is provided with support information |

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills include:

- applying workplace health and safety requirements
- applying basic sewing machine skills
- applying basic computer skills
- demonstrating basic use of colour, texture, shape, balance and composition
- selecting fabric, needles, thread, stabiliser and hoop to demonstrate machine operation
- explaining information on standard operating procedures and work instructions, and other reference material
- communicating effectively with customers
- sequencing operations
- demonstrating machine operation

Required knowledge includes:

- workplace health and safety requirements
- computer navigation to access and manipulate an image
- software functionality
- basic machine embroidery techniques
- types and properties of fabric
- colour, texture, shape, balance and composition theory
- hoop types
- needle types
- thread types
- stabiliser types
- workplace or store policies and procedures
- environmental aspects related to workplace and machine or equipment operation and manual handling
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

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| Critical aspects for assessment and evidence required to demonstrate competency in this unit | <p>It is essential that competence be demonstrated in the fundamental digitising techniques. The candidate must be able to:</p> <ul style="list-style-type: none">• install software• source and import selected artwork• complete image to stitch conversion• complete simple embroidery samples• demonstrate and explain features of the equipment and process. <p>Evidence should demonstrate ability in demonstrating digitising techniques through production of a range of sample pieces.</p> |
| Context of and specific resources for assessment | <p>Assessment may occur on the job or in an appropriately simulated environment and requires access to work areas, materials and equipment and to information on workplace practices and OHS practices.</p> <p>The resource requirements for this unit include access to:</p> <ul style="list-style-type: none">• digitising software• embroidery machine• hoops• a range of fabrics• a range of threads• a range of needles• hooping accessories• notions. |
| Method of assessment | <p>This unit may be assessed independently or in combination with other relevant units.</p> <p>Assessment methods may include:</p> <ul style="list-style-type: none">• written and oral questioning• completion of practical activities/tasks. |
| Guidance information for assessment | <p>Assessment processes and techniques must be culturally appropriate and appropriate to the language and literacy capacity of the candidate and the work being performed.</p> |

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

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| Software | Software may include: <ul style="list-style-type: none"> any software classed as a digitising software and includes customising and editing software |
| Needle types | Needle types may include: <ul style="list-style-type: none"> standard metalfil embroidery eye stretch |
| Threads types | Threads types may include: <ul style="list-style-type: none"> polyester metallic rayon cotton |
| Workplace procedures | Workplace procedures may include: <ul style="list-style-type: none"> requirements prescribed by legislation, awards, agreements and conditions of employment standard operating procedures work instructions oral, written and visual communication quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output housekeeping tasks related to environmental protection, waste disposal, pollution control and recycling |
| OHS practices | OHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and may include: <ul style="list-style-type: none"> manual handling techniques standard operating procedures personal protective equipment safe materials handling |

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| | <ul style="list-style-type: none">• taking of rest breaks• ergonomic arrangement of workplaces• following marked walkways• safe storage of equipment• housekeeping• reporting accidents and incidents• other OHS practices relevant to the job and enterprise |
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Unit Sector(s)

Digitising and computerised embroidery

Custom Content Section

Not applicable.