



Australian Government

Department of Education, Employment and Workplace Relations

LMTDE3006A Digitise text to produce embroidered lettering

Release: 1

LMTDE3006A Digitise text to produce embroidered lettering

Modification History

New unit

Unit Descriptor

This unit of competency covers the skills and knowledge required to digitise and produce embroidered lettering.

Application of the Unit

The unit includes the application of a range of pre-digitised fonts and digitising techniques using industry standard software to produce embroidered lettering. It includes documenting and storing artwork and producing samples to confirm result meets artwork specifications. Work involves some discretion, initiative and judgement on the job in own work, including liaison with specialist embroiderers and digitisers. Work may be conducted in a variety of environments, such as operational workplace activities, or home-based activities. Work may be undertaken on a range of machines that may include microprocessor or computer controlled. 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 complete digital embroidery using associated technology. Problem-solving skills are required to determine required program features to achieve specifications and identify any machining problems. Communication skills are used to refer to specifications and complete required documentation. 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

LMTDE3001A	Apply hooping and fabric handling techniques
LMTDE3002A	Digitise artwork for computerised embroideries
LMTCL2003B	Identify fibres and fabrics

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

1	Create basic lettering	1.1	Work requirements are confirmed, work area prepared and software opened
		1.2	Stitched letters are introduced using basic fonts
		1.3	Text is created on a straight line path
		1.4	Bold and italic options are used
		1.5	Font size is adjusted to create various size options
		1.6	Multi-line text embroidery is created
		1.7	File is saved to library and exported to machine for stitching according to manufacturer specifications
2	Introduce complex <i>text paths</i> and use with an existing embroidery file	2.1	Upper and lower arc paths are created and adjusted
		2.2	An ellipse path is created and adjusted
		2.3	A freehand path is created and adjusted
		2.4	Above, on and below the line settings are used with the different paths and effects reviewed for suitability to meet design brief
		2.5	Individual letter positions (on all above paths) are adjusted
		2.6	Different font styles are selected and used on different paths and effects reviewed for suitability to meet design

		brief
		2.7 Existing embroidery is selected and combined with text paths
		2.8 File is saved to library and exported to machine for stitching according to manufacturer specifications
3	Create artistic fonts	3.1 Text embroidery is created and shadows, <i>fill</i> techniques and colour options are used to create effects
		3.2 <i>Artistic fonts</i> are used for shaping words and achieving precise replication of existing printed material
		3.3 Windings/webdings or equivalent are used both as a font and individually as a picture
		3.4 Windings/webdings are combined with other fonts
		3.5 File is saved to library and exported to machine for stitching according to manufacturer specifications
4	Create a monogram	4.1 Letters and font are selected and adjusted for single, double and triple letter monograms
		4.2 Fill techniques and colour options are used to create effects
		4.3 Appropriate <i>underlay</i> is selected
		4.4 Outline options are used with and without <i>fill</i> stitches to create effects
		4.5 Tools are used to <i>adjust</i> images as required
		4.6 File is saved to library and exported to machine for stitching according to manufacturer specifications
5	Complete embroidery sample	5.1 <i>Fabric, stabiliser, toppings and backings, needles, thread and hoop types</i> are selected and used according to the design production requirements
		5.2 Embroidery is created and inspected against design specifications
		5.3 Waste is minimised and disposed of according to

environmental guidelines

- 5.4 Work is conducted in accordance with *workplace procedures* and *occupational health and safety (OHS) practices*
- 5.5 Feedback is sought and integrated into outcomes

Required Skills and Knowledge

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

Required skills include:

- applying workplace health and safety requirements for a production environment
- applying basic sewing machine skills
- applying basic computer skills
- applying creativity to use of colour, texture, shape, balance and composition
- selecting fabric, needles, thread, stabiliser and hoop to meet design specifications
- assembling and attaching hoop
- applying hooping techniques and using hooping accessories
- reading, interpreting and following information on work specifications, standard operating procedures and work instructions, and other reference material
- maintaining accurate records
- communicating within the workplace
- sequencing operations
- meeting specifications
- clarifying and checking task-related information

Required knowledge includes:

- workplace health and safety requirements for a production environment
- 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

- practices for recording and reporting

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.

Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>It is essential that competence be demonstrated in the skills fundamental to digitising text to produce embroidered lettering. The candidate must be able to:</p> <ul style="list-style-type: none">• introduce basic lettering• introduce complex text paths and use with an existing embroidery file• create artistic fonts• create monograms. <p>Evidence should demonstrate ability in 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• fabric• needles• thread• a range of fonts, including Wingdings.
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.

Text path	Text path may include: <ul style="list-style-type: none">• arc• freehand• ellipse• angle• rotation
Fills	Fills may include: <ul style="list-style-type: none">• stamp pattern• motif fill• contour• radial• cross-stitch
Artistic fonts	Artistic fonts may include: <ul style="list-style-type: none">• types• bold• italics
Underlay	Underlay may include: <ul style="list-style-type: none">• edge run• centre run• tatami• grid• zigzag• double zigzag• complex grid• complex edge
Adjust	Adjust may include: <ul style="list-style-type: none">• flip• rotate• mirror image• angle• copy• paste• resize

	<ul style="list-style-type: none"> • reshape • proportion • position • align • scale • skew
Fabric types	Fabric types must include: <ul style="list-style-type: none"> • wovens • non-wovens • knits • lightweight • heavyweight
Stabilisers, toppings and backings	Stabilisers, toppings and backings may include: <ul style="list-style-type: none"> • water soluble • tear away • iron on • cut away <p>Colours may include:</p> <ul style="list-style-type: none"> • black • white <p>Weights may vary</p>
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
Hoop types	Hoop types may include: <ul style="list-style-type: none"> • tubular • sash • screw • cap • square • round

	<ul style="list-style-type: none"> • spring
Workplace procedures	<p>Workplace procedures may include:</p> <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	<p>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:</p> <ul style="list-style-type: none"> • manual handling techniques • standard operating procedures • personal protective equipment • safe materials handling • 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

Unit Sector(s)

Digitising and computerised embroidery

Custom Content Section

Not applicable.