



Australian Government

Department of Education, Employment and Workplace Relations

LMTDE3005A Replicate traditional hand craft techniques

Release: 1

LMTDE3005A Replicate traditional hand craft techniques

Modification History

New unit

Unit Descriptor

This unit of competency covers the skills and knowledge required to apply specialised digitising techniques to replicate traditional hand craft techniques on a computerised embroidery machine.

Application of the Unit

The unit includes the application of a range of digitising techniques using industry standard software to convert artwork in preparation for embroidery production. It includes specifying design properties for the computerised production of a range of traditional embroidery techniques.

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.

Work may be conducted in small to large scale enterprises and may involve individual and team activities.

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
LMTDE3003A	Apply advanced digitising techniques to produce 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	Source and convert artwork	1.1	Work requirements are confirmed and workspace prepared
		1.2	Images are selected, imported into software and edited, as required
		1.3	Artwork is saved in appropriate <i>file type</i>
2	Digitise for embroidery techniques	2.1	Application and characteristics of <i>traditional hand craft techniques</i> are identified and suitability for design requirements confirmed
		2.2	Traditional hand craft technique is selected and <i>properties</i> determined in digitised image
		2.3	Finished design is saved to library

- 2.4 Template and worksheet is created, printed and checked to ensure it meets design requirements
 - 2.5 Completed design is exported to the machine ready for stitching according to manufacturer specifications
- 3 Complete embroidery sample
 - 3.1 ***Fabric, stabiliser, toppings and backings, needles, thread and hoop types*** are selected and used according to the design production requirements
 - 3.2 Embroidery is created and inspected against design specifications
 - 3.3 Waste is minimised and disposed of according to environmental guidelines
 - 3.4 Work is conducted in accordance with ***workplace procedures*** and ***occupational health and safety (OHS) practices***
 - 3.5 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
- traditional hand craft techniques and uses
- 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	It is essential that competence be demonstrated in digitising to replicate traditional hand craft techniques. The candidate must be able to: • create and sew separate embroideries for each of the following techniques: • blanket stitch • redwork • cross-stitch • appliqué • quilting • stippling • chain stitch • crazy quilting • lace • candlewick. Evidence should demonstrate ability in digitising traditional hand craft techniques through production of sample pieces for each technique.
Context of and specific resources for assessment	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. The resource requirements for this unit include access to: • digitising software • embroidery machine • hoops • a range of fabrics • a range of threads • a range of needles • hooping accessories • notions.
Method of assessment	This unit may be assessed independently or in combination with other relevant units. Assessment methods may include: • written and oral questioning

	• completion of practical activities/tasks.
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Guidance information for assessment	Assessment processes and techniques must be culturally appropriate and appropriate to the language and literacy capacity of the candidate and the work being performed.
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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.

File types	File types may include: • .jpeg • .gif • .tiff • .bmp • .wmf • .emf • .png
Traditional hand craft techniques	Traditional hand craft techniques must include: • blanket stitch • redwork • cross-stitch • appliqué • quilting • stippling • chain stitch • crazy quilting • lace • candlewick
Properties	Properties may include: • underlay • fill pattern • outline • colour • density • pull compensation • stabilisation

	• stitch points and corners • size
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Fabric types	Fabric types must include: • woven • non-woven • knits • lightweight • heavyweight
Stabilisers, toppings and backings	Stabilisers, toppings and backings may include: • water soluble • tear away • iron on • cut away Colours may include: • black • white Weights may vary
Needle types	Needle types may include: • standard • metalfil • embroidery eye • stretch
Threads types	Threads types may include: • polyester • metallic • rayon • cotton
Hoop types	Hoop types may include: • tubular • sash • screw • cap • square • round • spring
Workplace procedures	Workplace procedures may include: • 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: • 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.