



Australian Government

Department of Education, Employment and Workplace Relations

LMTDE3004A Generate artwork for computerised embroideries

Release: 1

LMTDE3004A Generate artwork for computerised embroideries

Modification History

New unit

Unit Descriptor

This unit of competency covers the skills and knowledge required to obtain and create images suitable for computerised embroidery production.

Application of the Unit

The unit includes scanning, creating and obtaining images; importing into digitising software for embroidery production; and producing a sample to confirm image suitability.

Work involves some discretion, initiative and judgement on the job in own work. It may be conducted in a variety of environments, such as operational workplace activities, or home-based activities.

This unit requires the application of skills associated with planning and organising to select and load images using associated technology. Problem-solving skills are required to determine required program features to achieve specifications and identify most suitable image options. 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

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

1	Determine artwork requirements	1.1	<i>Design and embroidery considerations</i> for image selection are identified
		1.2	Copyright regulations for image reproduction are identified and applied
		1.3	Software and technology requirements to obtain images are established
2	Source images	2.1	Images are accessed and downloaded from internet sources
		2.2	Hard copy images are sourced and scanned into digital format
		2.3	Image quality is assessed and opportunity for improvements or alterations are identified
		2.4	Copyright status of selected images is confirmed
		2.5	Suitability of images for digitising is assessed and capacity of software confirmed
3	Create or edit artwork	3.1	<i>Artwork</i> is created and converted into digital format
		3.2	Software is navigated to edit and alter images
		3.3	Alterations and/or improvements are made and file is saved in suitable <i>file types</i>
		3.4	Image is imported into digitising software
		3.5	Artwork specifications are entered into digitising software

- 4 Complete embroidery sample
 - 4.1 ***Fabric, stabiliser, toppings and backings, needles, thread and hoop types*** are selected and used according to the design production requirements
 - 4.2 Embroidery is created and inspected against design specifications
 - 4.3 Digitising specifications and process are confirmed as appropriate to achieving embroidery outcomes in a simple and fully automated manner
 - 4.4 Waste is minimised and disposed of according to environmental guidelines
 - 4.5 Work is conducted in accordance with ***workplace procedures*** and ***occupational health and safety (OHS) practices***
 - 4.6 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 machine skills
- applying 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:

- understanding workplace health and safety requirements for a production environment
- accessing an image
- computer navigation
- suitability of images to be digitised and limitations of software
- workspace functionality
- basic machine embroidery knowledge
- fabric recognition
- understanding fabric properties
- fundamental knowledge of colour, texture, shape, balance and composition theory
- hoop types
- needle types
- thread types
- stabiliser types

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.

<p>Critical aspects for assessment and evidence required to demonstrate competency in this unit</p>	<p>It is essential that competence be demonstrated in scanning, creating and obtaining images to produce computerised embroideries. The candidate must be able to:</p> <ul style="list-style-type: none"> • set up and use a scanner • access and obtain a range of images from internet sources • import selected artwork into digital format • create or edit artwork using suitable software • convert images into digital format • produce sample images. <p>Evidence should demonstrate ability in digitising images through production of a range of sample pieces.</p>
<p>Context of and specific resources for assessment</p>	<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"> • scanner • computer • digitising software • embroidery machine • hoops • a range of fabrics • a range of threads • a range of needles • hooping accessories • notions.
<p>Method of assessment</p>	<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.
<p>Guidance information for assessment</p>	<p>Assessment processes and techniques must be culturally appropriate and appropriate to the language and literacy</p>

	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.

Design and embroidery considerations	Design and embroidery considerations may include: <ul style="list-style-type: none"> • size • shape • quality • use of colour • editing options • image inclusions • compatibility with client profile • complexity/simplicity • production cost
Artwork	Artwork may include: <ul style="list-style-type: none"> • clipart • wingdings • text • borders • pictures
File types	File types may include: <ul style="list-style-type: none"> • .jpeg • .gif • .tiff • .bmp • .wmf • .emf • .png
Fabric types	Fabric types must include: <ul style="list-style-type: none"> • woven • non-woven • knits

	<ul style="list-style-type: none"> • lightweight • heavyweight
Stabilisers, toppings and backings	<p>Stabilisers, toppings and backings may include:</p> <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	<p>Needle types may include:</p> <ul style="list-style-type: none"> • standard • metalfil • embroidery eye • stretch
Threads types	<p>Threads types may include:</p> <ul style="list-style-type: none"> • polyester • metallic • rayon • cotton
Hoop types	<p>Hoop types may include:</p> <ul style="list-style-type: none"> • tubular • sash • screw • cap • square • round • 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

	<ul style="list-style-type: none"> • 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.