



Australian Government

Assessment Requirements for MSTDE3003 Apply advanced digitising techniques to produce computerised embroideries

Release: 2

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Modification History

Release 2. Supersedes and is equivalent to MSTDE3003 Apply advanced digitising techniques to produce computerised embroideries (Release 1).

Pre-requisite unit, MSTGN2011 Identify fibres, fabrics and textiles used in the TCF industry, is **superseded by** MSTGN2013 Identify fibres, fabrics and textiles used in the TCF industry.

Release 1. Supersedes and is equivalent to LMTDE3003A Apply advanced digitising techniques to produce computerised embroideries.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria, and include:

- reading and following work instructions, standard operating procedures (SOPs), safe work practices and other reference material
- applying relevant standards
- preparing, converting and editing images for digitising
- creating alternative stitch-out options for different colour ways, fabrics and placements
- using a range of advanced editing techniques to modify designs and create and enhance design effects
- introducing texture techniques
- demonstrating ability in advanced digitising techniques through production of at least five (5) embroidery pieces, according to specifications
- creating design library by saving and filing images, templates and design catalogues according to the workplace procedures and archive requirements.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- relevant Australian Standards
- a range of machines: microprocessor or computer control
- embroidery machines: domestic (single or multi-needle) or commercial (single or multi-head) machines
- basic sewing machine operations
- software functionality
- computer basic operations
- computer navigation to access and manipulate an image
- suitability of images to be digitised and limitations of software

- artwork sources
- access to embroidery designs
- advanced editing techniques:
 - adding and adjusting stitch angles
 - smoothing object outlines
 - converting between embroidery objects
 - reinforcing outlines
 - removing unwanted underlying stitching
 - creating outlines and fill holes
 - editing stitches
 - editing machine functions
 - creating manual stitching
 - digitising boring holes
 - adding stitches
 - feather stitching, such as:
 - positive stitch length
 - negative stitch length
 - side A
 - side B
 - pre-programmed patterns
 - use of customised patterns
 - reshaping, cutting, splitting and breaking design objects
- gradient:
 - single colour with a variety of:
 - density settings
 - stitch directions
 - dual and multi-colour with varying:
 - density settings
 - stitch directions
 - stitch types
- hooping techniques
- hooping accessories
- fabric types and properties:
 - woven
 - non-woven
 - knits
 - lightweight
 - heavyweight
- hoop types and uses:
 - tubular

- sash
- screw
- cap
- square
- round
- spring
- needle types and uses:
 - standard
 - metalfil
 - embroidery eye
 - stretch
- thread types:
 - polyester
 - metallic
 - rayon
 - cotton
- stabilisers, toppings and backings:
 - water soluble
 - tear away
 - iron on
 - cut away
 - varying weights
- stable underlay:
 - edge run
 - centre run
 - tatami
 - grid
 - zigzag
 - double zigzag
- range of digitising techniques
- motifs:
 - existing (pre-programmed)
 - individually created
 - placement
 - size
 - direction
 - repetition
 - spacing
 - layout
 - managed sets

- decorative fills and outlines:
 - backstitch
 - stemstitch
 - zigzag
 - E-stitch (blanket) fills and borders
 - contour
 - radial
 - cross-stitch
 - arc
 - spiral
 - satin
 - motif
 - tatami offsets
 - pattern splits
 - carving stamps
 - user-defined splits
- practices for recording and reporting.

Assessment Conditions

- Assessors must:
 - satisfy the assessor competency requirements that are in place at the time of the assessment, as set by the VET regulator
 - have vocational competency in advanced digitising techniques, at least to the level being assessed, with relevant industry knowledge and experience.
- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>