



**Australian Government**

# **MSTDE3001 Apply hooping and fabric handling techniques**

**Release: 2**

# MSTDE3001 Apply hooping and fabric handling techniques

## Modification History

Release 2. Supersedes and is equivalent to MSTDE3001 Apply hooping and fabric handling techniques (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Pre-requisite unit, MSTGN2011 Identify fibres, fabrics and textiles used in the TCF industry, is **superseded by** MSTGN2013 Identify fibres, fabrics and textiles used in the TCF industry.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 LMTDE3001A Apply hooping and fabric handling techniques.

## Application

This unit of competency covers the skills and knowledge required to prepare fabric for final stitching on an embroidery machine. It includes hoop selection and use.

Work may be conducted in small to large scale enterprises, such as operational workplace activities, or home-based activities. Work is performed within defined procedures under limited supervision.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

## Pre-requisite Unit

MSTGN2013 Identify fibres, fabrics and textiles used in the TCF industry

## Competency Field

Digitising and computerised embroidery

## Unit Sector

Not applicable

## Elements and Performance Criteria

### Elements

*Elements describe the essential outcomes.*

#### 1 Determine job requirements

### Performance Criteria

*Performance criteria describe the performance needed to demonstrate achievement of the element.*

- |     |                                                                    |
|-----|--------------------------------------------------------------------|
| 1.1 | Follow standard operating procedures (SOPs)                        |
| 1.2 | Comply with work health and safety (WHS) requirements at all times |

|   |                                                                |     |                                                                                                                                  |
|---|----------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------|
|   |                                                                | 1.3 | Use appropriate personal protective equipment (PPE) in accordance with SOPs                                                      |
|   |                                                                | 1.4 | Identify job requirements from specifications, drawings, job sheets or work instructions                                         |
| 2 | <b>Prepare to apply hooping and fabric handling techniques</b> | 2.1 | Select digitised design file, of not more than six colours, and establish specific requirements of the article to be embroidered |
|   |                                                                | 2.2 | Confirm work requirements                                                                                                        |
|   |                                                                | 2.3 | Assess stabiliser requirements and select stabiliser                                                                             |
|   |                                                                | 2.4 | Establish the need for additional toppings and backings and select                                                               |
|   |                                                                | 2.5 | Combine stabilisers and fabric and hoop to meet machine recommendations                                                          |
| 3 | <b>Stitch embroidery and finalise work</b>                     | 3.1 | Mount hoop onto the machine according to manufacturer recommendations                                                            |
|   |                                                                | 3.2 | Consider fabric properties when handling garment                                                                                 |
|   |                                                                | 3.3 | Stitch embroidery and inspect against job specifications                                                                         |
|   |                                                                | 3.4 | Embroider pieces using woven, non-woven, knitted, lightweight and heavyweight fabrics                                            |
|   |                                                                | 3.5 | Minimise waste and dispose of according to environmental guidelines and workplace procedures                                     |

## Foundation Skills

This section describes those required skills (language, literacy and numeracy) that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

- Workplace procedures include one or more of the following:**
- requirements prescribed by legislation, awards, agreements and conditions of employment
  - SOPs
  - 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
  - WHS practices

- Australian Standards include:**
- the relevant industry or Australian Standards that are current at the time this unit is being undertaken

- Work requirements include:**
- determining and accessing material and equipment
  - establishing any special requirements to complete the embroidery
  - determining embroidery dimensions and selecting appropriate hoop type
  - selecting fabric to be embroidered and checking properties for suitability to work requirements
  - selecting thread and needle types to be used to create the embroidery and loading for machine use

- Hoop types include one or more of the following:**
- tubular
  - sash
  - screw
  - cap
  - square
  - round
  - spring

- Fabrics include the following:**
- woven
  - non-woven

- knitted
- lightweight
- heavyweight

**Needle types include one or more of the following:**

- standard
- metalfil
- embroidery eye
- stretch
- specialist needles for microfibres, knits or metallic fabric/threads

**Stabilisers, toppings and backings include one or more of the following:**

- water soluble
- tear away
- iron on
- cut away
- black
- white
- varying weights

## Unit Mapping Information

Release 2. Supersedes and is equivalent to MSTDE3001 Apply hooping and fabric handling techniques (Release 1).

Release 1. Supersedes and is equivalent to LMTDE3001A Apply hooping and fabric handling techniques.

## Links

Companion Volume implementation guides are found in VETNet -

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

# Assessment Requirements for MSTDE3001 Apply hooping and fabric handling techniques

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## Performance Evidence

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

- reading and following work instructions, standard operating procedures (SOPs), safe work practices and other reference material
- applying relevant standards
- applying basic sewing machine skills
- using computer basic operations
- selecting correct hoop and applying hooping techniques
- using hooping accessories
- using and loading needles
- selecting and loading thread
- identifying fabric properties
- selecting stabilisers, toppings and backings
- stitching at least two (2) embroidery pieces according to specifications
- using an embroidery machine for final stitching sample pieces using woven, non-woven, knitted, lightweight and heavyweight fabrics
- applying workplace procedures.

## 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
- computer basic operations

- access to embroidery designs
- hooping techniques
- hooping accessories
- fabric types
  - wovens
  - non-wovens
  - knits
  - lightweight
  - heavyweight
- fabric properties:
  - density
  - stretchability
  - stretch direction
- hoop types and uses
  - tubular
  - sash
  - screw
  - cap
  - square
  - round
  - spring
- needle types and uses
  - standard
  - metalfil
  - embroidery eye
  - stretch
  - specialist needles for microfibres, knits or metallic fabric/threads
- thread types and uses
  - polyester
  - metallic
  - rayon
  - cotton
- stabiliser types and uses
  - water soluble
  - tear away
  - iron on
  - cut away
  - black
  - white
  - varying weights

- environmental aspects related to workplace and machine or equipment operation and manual handling.

## 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 applying hooping and fabric handling 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

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