



Australian Government

Assessment Requirements for MSTTX3011 Set up, adjust and monitor a machine for TCF production

Release: 1

Assessment Requirements for MSTTX3011 Set up, adjust and monitor a machine for TCF production

Modification History

Release 1. Supersedes:

- LMTTX3011A Set up, adjust and maintain circular knitting machines
- LMTTX3012A Set up, adjust and maintain flat knitting machines
- LMTTX3013A Set up, adjust and maintain spinning machines
- LMTTX3014A Set up, adjust and maintain carding machines
- LMTTX3015A Set up, adjust and maintain tufting looms
- LMTTX3016A Set up, adjust and maintain domestic sewing machines
- LMTTX3020A Identify and correct weaving process faults
- LMTTX3021A Apply knowledge of weaving processes to production requirements
- LMTTX3022A Set up and operate weaving looms for production

Not equivalent

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, manufacturer operational guidelines
- applying relevant standards
- interpreting production specifications accurately
- performing sample runs and analysing results to ensure quality outcomes
- identifying and correcting product related faults and making repairs or corrections, within scope of own responsibilities and manufacturer operational guidelines
- identifying and making appropriate machine readjustments and repairs, according to own responsibilities, workplace procedures and manufacturer specifications, on at least two (2) occasions
- starting, operating, stopping, re-starting and monitoring at least one (1) machine in accordance with manufacturer requirements to produce textile material or product, on at least two (2) occasions
- determining root cause and solving operational problems or referring to relevant personnel
- setting and operating machine safely and correctly to run at optimum quality and efficiency levels to produce required quantity and quality of product
- applying work health and safety (WHS) and workplace procedures
- maintaining accurate records.

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
- setting up and adjustment requirements for the identified machine
- specifications for operation of particular machines
- textile production machines and equipment used in the enterprise:
 - machines for knitting :
 - circular knitting machines
 - electronic and automatic flat knitting machines
 - machines for spinning:
 - spinning machines
 - drawing machines
 - roving machines
 - twisting machines
 - winding machines
 - carding machines:
 - burr handling systems
 - air filtration equipment
 - combs
 - doffer waste system
 - blending systems
 - compressed air and hydraulic systems
 - tufting looms:
 - winding machines
 - finishing equipment
 - other ancillary equipment
 - domestic sewing machines:
 - lockstitch and chain stitch sewing machines
 - overlock sewing machines and sergers
 - high volume automatic and manually operated hem, selvedge and embroidery sewing machines
 - weaving machines:
 - weaving looms
 - broadloom
 - narrowloom
 - all shuttle types
 - Jacquard looms
 - microprocessor or computer-controlled looms

- dyeing machines
- finishing machines
- ancillary machines typically used in the textile production sector concerned, including:
 - production and service equipment used in the enterprise
 - loading and unloading equipment
 - labelling machine or printer
 - packaging machine
 - stud machine
 - folding machine
- typical products produced by textile production machine, including knitting, sewing, weaving, spinning, carding, tufting and finishing machines:
 - fibres, including polyester, cotton, wool, viscose and rayon
 - yarns, including ring spun, open-ended spun, air jet spun and friction spun
 - fabrics
 - finished products, including socks, sweaters, towels, sheets, blankets, carpets, rope and twine, mops and industrial textiles
- product specifications required for machine
- machine methods and the various types of effects they can produce
- sewing, knitting, weaving, spinning, carding methods and the various types of products and effects they can produce
- fibre types and their method of production
- fibre attributes and parameters
- yarn characteristics, twist and application
- yarn counts and quality indicators
- fabrics and knit effects
- production process and types of production
- pattern specifications
- factors affecting machine performance, including yarn strength, sizing and ambient conditions
- machine manufacturer specifications
- fault identification in materials and textile products, and methods of repair, including threading faults, joining of yarn and tensioning, and setting of clearances, limits and fits
- identification of machine faults and methods of repair, including removal and replacement of faulty or worn parts, and re-setting or re-programming of controls and sensors
- WHS and environmental aspects of relevant enterprise activities
- quality practices
- workplace procedures
- recording and reporting practices

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 setting up, adjusting and monitoring a machine for TCF production, 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>