



Australian Government

Assessment Requirements for MSFFDT5012 Design for mass production

Release: 1

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Modification History

Release 1 - New unit of competency

Performance Evidence

- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Follow work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
- Apply research, analytical and mathematical skills to the identification and selection of materials and the selection of appropriate production and construction techniques for products
- Create innovative designs which satisfy the agreed parameters and consider but are not limited by other historical or contemporary influences
- Prepare and work through a design brief taking into account the requirements of mass production to fulfil the design brief and oversee a mass production run
- Review information provided and creatively generate proposals for a furnishing product
- Apply design elements and principles to designing for mass production in accordance with a design brief
- Use mathematical ideas and techniques to correctly complete calculations for design assessment
- Lead others and work effectively to improve production quality and outcomes
- Communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Use workplace technology related to the coordination, including communication equipment, time and management aids and other measuring devices
- Minimise wastage of resources, including materials, time and money
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity and encourage participation of employees in the planning of work activities and changes

Knowledge Evidence

- State or territory WHS legislation, regulations, standards and codes of practice relevant to designing for mass production
- Organisational and site standards, requirements, policies and procedures for designing for mass production

- Environmental protection requirements
- Established communication channels and protocols
- Relevant problem identification and resolution
- Elements and principles of design
- Ergonomics and aesthetic values
- Supply chain management
- Outsourcing arrangements
- Cost-benefit analysis methods
- Company resource audit techniques
- Design and manufacture for mass production
- Types of tools and equipment and procedures for their safe use, operation and maintenance
- Characteristics of materials, products and defects
- Set-up and operation of furniture making equipment
- Relevant computer programs
- Furniture product machining, assembly and finishing techniques
- Sketching and drawing techniques
- Storage systems and labelling
- Procedures for the recording, reporting and maintenance of workplace records and information
- Appropriate mathematical procedures for estimation and measurement.

Assessment Conditions

- Assessors must:
 - hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors
 - have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification
 - be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.
- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, multimedia evidence, supervisor's reports, projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to specifications, materials and equipment relevant to designing for mass production.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>