



Australian Government

**Assessment Requirements for
MSFFDT4014 Set up and operate a
wood-turning lathe to produce off-centre
work**

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Modification History

Release 1 - New unit of competency

Performance Evidence

- Collect, organise and understand information related to furnishing work instructions and work orders and safety procedures
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Identify materials used in the work process
- 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
- Identify, set up and maintain holding devices, safe speed selection and balance limitations to complete:
 - freehand turn articles between centres that have multiple axis
 - a minimum of eight (8) hand turned articles to detail between centres
 - manufacture of templates and gauges
 - scroll cut material prior to turning
 - a minimum of four (4) hand turned articles to detail with grain at 90° to the axis of the lathe
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- 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 wood-turning

- Terminology covering wood-turning operations and materials
- Types, characteristics, used and limitations of timber species for wood-turning
- Techniques for the design and documentation of specifications for wood-turned products
- Organisational and site standards, requirements, policies and procedures for turning of wood
- Types, characteristics, uses, limitations and maintenance requirements of the range of tools used in wood-turning
- Processes for evaluating the quality of wood-turning tools in terms of specifications, safety, maintainability and commercial reputation
- Range of commonly used wood-turning techniques
- Established communication channels and protocols
- Relevant lathe and wood-turning problem identification and resolution
- Workplace safety requirements and WHS legislation
- Work flow within the workplace

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 significant wood turning requirements, including design brief or specification, a range of optional timbers, a range of quality wood turning tools, materials and specifications for the preparation of the product for finishing.

Links

Companion Volume implementation guides are found in VETNet -

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