



Australian Government

Department of Education, Employment and Workplace Relations

LMFDN4002A Produce line and component production drawings

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the competency to use computing and software capabilities to produce line and component production drawings.

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Application of the Unit

Not applicable.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

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Element	Performance Criteria
1 Produce line drawings	<ul style="list-style-type: none">1.1 Drawing preparations, including essential information on product range, dimensions, customer requirements and enterprise information management systems are obtained/completed.1.2 Presentation style and method and appropriate software capabilities are selected and applied.1.3 Drawings accurately reflect the product specification.1.4 Drawings cover the required product range.1.5 Drawings are clear and comply with customer presentation requirements.
2 Prepare component production drawings	<ul style="list-style-type: none">2.1 Drawing preparations, including the essential information on component specifications, dimensions and drawing and labelling management are obtained/completed.2.2 Drawing conventions and specifications to be noted on the drawing are identified.2.3 Dimensions are plotted and connected to match appropriate drawing view/perspective.2.4 Production notes, special requirements and drawing information is noted as required.2.5 Drawing is checked for accuracy, clarity and compliance with enterprise documentation requirements.2.6 Drawing is labelled and stored or processed in accordance with enterprise requirements.

Required Skills and Knowledge

Not applicable.

Evidence Guide

The Evidence Guide identifies the critical aspects, knowledge and skills to be demonstrated to confirm competency for this unit. This is an integral part of the assessment of competency and should be read in conjunction with the Range Statement.

Critical aspects of evidence

Locate, interpret and apply relevant information.

Apply safety requirements throughout the work sequence, including the use of personal protective clothing and equipment.

Identify requirements of task and organise work to achieve goals and results.

Interpret specifications and measurements in two and three-dimensional form.

Satisfy ergonomic criteria during the drawing process.

Present relevant information within the production drawing using computer-aided processes and techniques.

Label and store drawing outcomes.

Suggest improvements to drawing activities and where authorised, negotiate changes.

Modify activities to cater for variations in workplace cultures and environment.

Underpinning knowledge

Computer-aided drawing processes and techniques.

Drawing presentation standards.

Ergonomic principles for furniture design and manufacture.

Enterprise or equivalent operating procedures, including procedures for preparing drawings and presenting information.

Relevant regulatory requirements, recognised standards and codes, and industry practices.

Underpinning skills

Information. Collect, organise and understand information related to the drawing requirement, including the relevant technical, regulatory, cultural, environmental and safety requirements.

Communication. Communicate ideas and information to enable clarification of the conceptual requirements, co-ordination of work with site supervisor, other workers and customers, and the reporting of work outcomes and problems.

Planning. Plan and organise activities, including the preparation and layout of the worksite and the obtaining of equipment, systems and materials to avoid any back tracking, workflow interruptions or wastage.

Teamwork. Work with others and in a team by recognising dependencies and using co-operative approaches to optimise workflow and productivity.

Mathematical ideas and techniques. Use mathematical ideas and techniques to correctly complete measurements, calculate area and dimensions, create accurate and scaled drawings, and estimate material requirements.

Solve problems. Create and apply systematic problem solving techniques to anticipate drawing problems, avoid reworking and avoid wastage.

Use of technology. Use the workplace technology related to the drawing, including drafting tools and equipment, calculators and measuring devices and computing/computer-aided systems.

Resource implications

Line and production drawing requirements, specifications, dimensions and drawing equipment.

Method of assessment

Assessment methods must confirm consistency of performance over time and in a range of workplace relevant contexts.

Assessment should be by direct observation of tasks and/or samples of work and questioning on underpinning knowledge.

Assessment should be conducted over time and will generally be in conjunction with assessment of other units of competency.

Context of assessment

Assessment may occur on the job or in a simulated workplace facility with relevant equipment, simulated work instructions and deadlines.

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Range Statement

The Range Statement provides advice to interpret the scope and context of this unit of competency, allowing for differences between enterprises and workplaces. It relates to the unit as a whole and facilitates holistic assessment. The following variables may be present for this particular unit.

Unit scope

The drawings to be produced are intended for use in a furnishing industry production, manufacturing or marketing environment.

Drawings are to be produced using computer-aided processes and may be produced manually. Drawings are to be both two and three-dimensional.

Unit context

OH&S requirements include:

legislation

building codes

material safety management systems

hazardous substances and dangerous goods codes, and safe operating procedures.

Work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, authorised handling procedures and organisation insurance requirements.

Work requires individuals to demonstrate conceptual and analytical ability, judgement and problem solving skills in the completion of drawings.

Workplace environment

The work may be conducted in any of the enterprises of the sectors that form part of the furnishing industry.

Work is generally performed with little external assistance and with minimal supervision or direction.

Drawing is to be undertaken in accordance with established industry and/or enterprise practices and procedures.

Customers may be internal or external.

Tools and equipment

Tools and equipment are to include:

drafting table

drawing aids

computing equipment and work station, and

special lighting conditions.

Materials

Materials are to include drawing and computing consumables.

Personal protective equipment

Personal protective equipment is to include that prescribed under legislation, regulations and enterprise policies and practices.

Information and procedures

Customer and component specifications/instructions.

Work procedures/instructions.

Enterprise information management systems as they relate to drawing management.

Legislation/regulations/codes relevant to the work undertaken.

Quality and Australian standards and procedures.

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Unit Sector(s)

Not applicable.