



Australian Government

Department of Education, Employment and Workplace Relations

LMTGN3008A Draw 3D designs

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers skills and knowledge required to draw three dimensional designs for custom made and production textile, clothing and footwear products.

Application of the Unit

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The unit applies to the illustration or drawing of designs from the designer or rough sketch. The three dimensional drawings will feature all perspectives of the product; and will be used as a communication tool for construction or promotional purposes. The drawing may be done manually or by computer.

Work may be conducted in small to large scale enterprises and may involve individual and team-related activities.

The application of this unit is according to OHS practices of the enterprise and workplace practices which may include:

- requirements prescribed by legislation, awards, agreements and conditions of employment
- standard operating procedures
- 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

This unit requires the application of skills associated with communication to interpret and graphically depict information for use in three dimensional designs. Planning and organising and problem solving skills are also required to achieve drawings that can be used to direct design processes. Self management skills are applied to ensure work meets work standards.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Prepare drawing tools, equipment and workstation	1.1 Drawing tools and equipment are selected and prepared 1.2 Workbench and seating are set up according to OHS practices
2 Interpret designer or rough sketch and apply 3D drawing techniques	2.1 Designer or rough sketch is interpreted 2.2 Features and specifications are identified 2.3 Quality criteria for drawing is identified 2.4 Design of product is accurately drawn in pencil using templates where required and showing relevant wearing or placement angles 2.5 Front, back and profile views of the product are drawn 2.6 Penciled drawing is confirmed with customer or designer and necessary adjustments made to meet requirements
3 Finalise 3D designs	3.1 Finalised drawing is rendered according to requirements 3.2 Presentation materials, tools and equipment are selected 3.3 Visual presentation techniques are applied to final illustration 3.4 Final illustration of 3D design is presented

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit

Demonstrates knowledge of:

- parts of and terminology of the product
- drawing tools and equipment
- presentation materials, tools and equipment
- traditional and non-traditional materials quality concepts
- OHS practices including hazard identification and control measures associated with
- workplace practices
- recording and reporting practices

Demonstrates skill to:

- use drawing tools and equipment to illustrate designs
- use presentation materials, tools and equipment
- present final illustration for design
- apply quality procedures
- read, interpret and follow information on work specifications, standard operating procedures and work instructions and other reference material
- maintain accurate records
- communicate within the workplace
- sequence operations
- meet specifications
- clarify and check task-related information
- carry out work according to OHS practices

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence to be considered	Demonstrates skills and knowledge to: • interpret design • use appropriate drawing tools and equipment • draw an accurate 3D drawing of a design • apply quality criteria in the completion of the drawing • present the final drawing that accurately represents the product design
Consistency in performance	Consistently applies skills and knowledge when: • organising work • completing tasks • identifying improvements • using workplace practices • using OHS practices • recording and reporting accidents and incidents • assessing operational readiness of equipment used and work processes • recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions • completing work systematically with attention to detail without damage • to goods and equipment
Resource implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Context for assessment	Assessment may occur on the job or in an appropriately simulated environment.
Interdependent assessment	This unit may be assessed independently or in combination with other relevant units.

Range Statement

RANGE STATEMENT

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the Performance Criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

Legislative/regulatory requirements	All work must comply with relevant Federal and State or Territory legislative or regulatory requirements.
Drawing tools and equipment may include:	• HB lead pencil • eraser • pencil sharpener • black felt tip pens (02,04 and 06) • A3 layout pad • computer software
OHS practices	OHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit and may include: • manual handling techniques • standard operating procedures • personal protective equipment • safe materials handling • taking of rest breaks • ergonomic arrangement of workplaces • following marked walkways • safe storage of equipment • housekeeping • reporting accidents and incidents • other OHS practices relevant to the job and enterprise
Designer or rough sketch, may originate from:	• verbal description from client • discussion between client and producer • discussion and description between producer and designer • a record of an existing product
Interpreted may include:	• parts or sections of the product • trims or features • shape and silhouette • colour • textures • balance • how the product is worn

Quality criteria may include:	• traditional and non-traditional materials • proportion • perspective • detailing • neatness • accuracy • the media to be used • rendering • size of the drawing
Product may include:	• hat • footwear • accessories • garment • other textile product
Templates may include:	• variety of different face or body shapes, necks and shoulders • variety of body or head profiles • facial features - eyes, eyebrows, nose, mouth, ears • hair styles and colouring • women, men or children • product styles
Angles may include:	• side • front • back • square
Rendering may include the use of:	• solid colour • wash • felt pens • gouache • pen and ink • pencil • shading
Presentation materials, tools and equipment may include:	• mounting board • frames • backings • electronic • cutting tools • adhesives • cover sheet to protect illustration eg plastic sleeves, drawing paper
Visual presentation techniques may	• mounting • display of different angles of product

include:

- production notes
- electronic methods

Unit Sector(s)

Sector All