



Australian Government

ICPPRP481 Design complex carton

Release: 1

ICPPRP481 Design complex carton

Modification History

Release	Comments
Release 1	This version first released with ICP Printing and Graphic Arts Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to design cartons for which no templates exist.

It requires the individual to design an original complex carton that meets job specifications and substrate characteristics, and then produce an accurate prototype.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Pre-Press

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1 Assess brief requirements	1.1 Discuss brief with client to ensure requirements are understood 1.2 Check that all relevant information is in the brief, i.e. end use, dimensions and product characteristics
2 Design carton to suit brief requirements	2.1 Determine appropriate carton style, size, material and calliper to meet the client brief 2.2 Use scanners or digitisers to import design material into computer program 2.3 Draw design using computer program 2.4 Set height, width and depth and gluing flap dimensions to meet requirements of the client brief 2.5 Requirements for knife setting, stripping and gluing in

ELEMENT	PERFORMANCE CRITERIA
	production are checked and position is designed so grain direction is correct and use of material is maximised
3 Use plotter to cut sample	3.1 Output device (e.g. plotter) is set up ready for downloading design 3.2 Cutting and creasing depths are set 3.3 Calliper of material is checked 3.4 Material is positioned correctly 3.5 Output device is operated safely according to manufacturer's specifications and enterprise procedures 3.6 Routine machine maintenance is carried out
4 Assemble sample	4.1 Sample is cut by hand adopting safe practices 4.2 Cut sample is folded and glued by hand ensuring angles and construction are correct
5 Check and adjust design	5.1 Sample is checked for conformance to the client brief 5.2 Design is adjusted if necessary to meet job specifications
6 Output design	6.1 Design is saved ready for downloading to forme cutter 6.2 Design is outputted as keyline for artwork or as film, as required 6.3 Relevant paperwork is completed

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.1, 1.2, 2.1, 2.4, 3.5, 5.1, 5.2	Recognises and interprets text to establish job requirements from information contained in procedures and specifications
Writing	6.3	Completes workplace forms accurately and legibly using correct technical and enterprise-specific vocabulary
Oral Communication	1.1	Participates effectively in spoken interactions with clients to confirm or clarify requirements

Numeracy	2.4, 2.5, 3.2, 3.3, 4.2	Calculates sizes, callipers and efficient use of materials
Navigate the world of work	3.5	Understands and complies with legislative requirements associated with own role
Interact with others	1.1	Uses appropriate communication protocols and conventions to confirm or clarify client requirements
Get the work done	2.1-2.5, 3.1-3.4, 3.6, 4.1, 4.2, 5.2, 6.1, 6.2	- Takes responsibility for planning and organising own workload and assembles required resources - Recognises and takes responsibility for addressing predictable, and some less predictable, problems in familiar work contexts - Utilises a broad range of features within applications, optimising software functions for specific purposes

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICPPRP481 Design complex carton	ICPPP481C Design complex carton	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a74b7a0f-a253-47e3-8be0-5d426e24131d>

Assessment Requirements for ICPPRP481 Design complex carton

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Performance Evidence

Evidence of the ability to:

- produce TWO different complex carton designs which accurately meet the client brief and substrate characteristics
- find and use information relevant to the task from a variety of information sources.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- outline health and safety concerns when using computers, plotters and scanners
- explain effect of board grain and calliper on carton design
- outline correct use of a micrometer
- explain how appropriate board for a product is selected
- explain how scuff, heat and moisture resistance are determined
- explain effect inks and sealants have on board characteristics and selection
- name computer programs for carton design
- outline checks to perform when programming a new design on the computer system
- discuss uses and limitations of digitisers and scanners
- outline checks to perform when using digitisers and scanners
- identify types of products cartons are used for
- explain how to determine if a design is appropriate for its end use
- explain how refrigeration affects design and materials
- list aspects of product sizing and tolerances that should be rechecked
- explain how tolerances are set in a design
- explain how stability in a display carton is ensured
- explain how to determine appropriate strength, size and placing of glue lines and nips
- identify carton designs suitable for machine packing

- identify carton designs suitable for hand packing
- outline constraints on design and positioning on the forme caused by knife making and production
- explain how manufacturing requirements of cutting and gluing affect carton design
- explain how appropriate angles and cornering of flaps are determined
- list main features of, and differences between, different graphic design software programs that need to be considered when outputting carton designs
- outline ways to ensure output is appropriate for the graphic design software used by the customer
- identify manuals, safety and other documentation relevant to this task, where they are kept, and information included in them
- identify other sources of available information.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the Pre-Press field of work and include access to special purpose tools, equipment and industry software packages.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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