



Australian Government

Department of Education, Employment and Workplace Relations

ICPPP281C Design basic carton

Revision Number: 1

ICPPP281C Design basic carton

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit describes the performance outcomes, skills and knowledge required to design cartons using and adapting existing templates.
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Application of the Unit

Application of the unit	This unit requires the individual to design a basic carton using known templates that meet job specifications and then produce an accurate example.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

<p>Elements describe the essential outcomes of a unit of competency.</p>	<p>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.</p>
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Assess the requirements of the brief	1.1. All relevant information in the brief is checked, eg carton type, dimensions, material 1.2. All relevant requirements of the brief are assessed in line with enterprise specifications
2. Select and modify template	2.1. Appropriate template is selected on the CAD system 2.2. Height, width and depth and gluing flap dimensions are adjusted according to the client brief 2.3. Requirements for knife setting and stripping in production are checked and position is designed so as to have correct grain direction and to maximise use of material
3. Use plotter to cut sample	3.1. Plotter is set up ready for downloading design 3.2. Cutting and creasing depths are set 3.3. Material is positioned correctly 3.4. Plotter is operated safely according to manufacturer's specifications and enterprise procedures 3.5. Routine machine maintenance is carried out as required
4. Assemble sample	4.1. Sample is cut by hand 4.2. Cut sample is folded and glued by hand ensuring that angles and construction are correct 4.3. Originals and elements are selected, scaled and cropped appropriately to fit the grid space allocate
5. Check and adjust design	5.1. Sample is checked to ensure 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 according to enterprise procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- OHS in relation to operating machinery such as safely switching off machinery before cleaning is started
- communication of ideas and information by interpreting the job brief
- collecting, analysing and organising information by using information on carton types and templates in conjunction with the job brief
- planning and organising activities by planning the sequence of operations to facilitate processing
- teamwork when maintaining the production process in association with others
- mathematical ideas and techniques by calculating sizes, allowances, calliper of materials
- problem-solving skills by recognising and fixing sample problems
- use of technology by using equipment correctly to facilitate processing

Required knowledge

- health and safety concerns that are there when using computers and plotters
- CAD programs that are available for carton design
- correct alignment of a cut outpositioned in a design
- types of products that are the following types of cartons used for (sleeves, full flap, auto lock, crash lock, trays)
- design is appropriateness for its end use
- aspects of product sizing and tolerances that should be rechecked
- carton designs that are suitable for machine packing
- carton designs that are suitable for hand packing
- constraints on design and positioning on the forme that are caused by the requirements of knife making and production
- manuals, safety and other documentation that are relevant to this task and where are they kept and information that is included in these documents

Evidence Guide

EVIDENCE GUIDE	
<p>The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.</p>	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>Evidence of the ability to:</p> <ul style="list-style-type: none"> the sample carton accurately meets the job and client specifications demonstrate an ability to find and use information relevant to the task from a variety of information sources produce TWO different carton designs and samples using existing templates to meet job brief according to the listed Performance Criteria.
Context of and specific resources for assessment	<p>Assessment must ensure:</p> <ul style="list-style-type: none"> assessment may take place on the job, off the job or a combination of these. Off the job assessment must be undertaken in a closely simulated workplace environment.
Method of assessment	<p>A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:</p> <ul style="list-style-type: none"> direct questioning combined with review of portfolios of evidence and third party workplace reports of on-the-job performance by the candidate.
Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>

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. 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) may also be included.

<i>Design tools</i> may include:	<ul style="list-style-type: none"> appropriate CAD programs, plotters.
<i>Types of design</i> may include:	<ul style="list-style-type: none"> full range of cartons including sleeves, tucks, full flap, auto lock, crash lock, trays for which there are existing templates on the CAD system.
<i>Quality standards</i> may include:	<ul style="list-style-type: none"> should meet client requirements and enterprise and industry standards.

Unit Sector(s)

Unit sector	
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Competency field

Competency field	Pre-press
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Co-requisite units

Co-requisite units		