

COGPACK5

Realise packaging design prototypes



Overview

This unit deals with the following:

- 1 Plan and monitor realisation processes
- 2 Realise prototypes
- 3 Evaluate prototypes

During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices AS THEY APPLY TO YOU.

Previous Version

Unit 1.5 SEMTA National Occupational Standards in Packaging (STM4)

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Performance criteria

- You must be able to:*
- P1 confirm the aims for realising the design prototype with others involved in the process
 - P2 select suitable media, materials and associated tools, equipment, techniques and processes to meet the design objectives
 - P3 plan and organise the resources needed to realise a viable prototype to meet the deadline
 - P4 monitor the realisation process to ensure that the prototype matches the design and functional specifications
 - P5 respond appropriately to any unforeseen problems encountered during the realisation process
 - P6 record all relevant information and agreements according to your organisation's procedures
 - P7 meet the requirements of the design brief and realisation plan in the production of your prototype
 - P8 meet the requirements of the timescale and budget
 - P9 produce the prototype to such a standard as to enable meaningful evaluation to take place
 - P10 test the prototype according to the specification of the realisation plan
 - P11 ensure that all interested parties have been actively involved in the development process
 - P12 inform your client and/or decision-makers promptly of problems, issues and developments
 - P13 respond appropriately to unforeseen problems encountered during the realisation process
 - P14 gather sufficient and accurate information as to enable you to carry out a meaningful evaluation
 - P15 carry out an evaluation that meets the requirements of the design brief and realisation plan
 - P16 analyse the results of the evaluation and draw logical and valid conclusions
 - P17 consult all interested parties and build their feedback into your report
 - P18 structure clear, objective and persuasive arguments in support of your conclusions
 - P19 report your findings in the appropriate format to the right people

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Knowledge and understanding

You need to know and understand:

- K1 how to estimate the skills, time and resources required for realisation
- K2 how to schedule work and monitor progress against plans
- K3 the design objectives and client requirements
- K4 design and functional specifications
- K5 project constraints and deadlines (e.g. costs, time, technical and performance standards and quality parameters)
- K6 regulations, environmental and health and safety considerations in the use of materials, processes and technology
- K7 design and functional specifications
- K8 relevant logistics features and the end use of the product
- K9 the roles and responsibilities of those involved in the development and manufacture of the prototype
- K10 the principles of project management
- K11 the possible courses of action that might be open to you in solving problems
- K12 different commercial manufacturing methods and the advantages and limitations of each
- K13 the basis on which the prototype will be evaluated
- K14 practical testing techniques
- K15 evaluation techniques (quantitative and qualitative)
- K16 how to prepare and present evaluation reports

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Glossary

Viability

Creative, technical

Resources

People, time, budget, technology

Factors relating to

Materials, processes, requirements of the brief

Quality Standards

Your organisation, the client's, the industry's quality standards

Materials

New materials, existing materials

Prototypes

2-dimensional, 3-dimensional

Proposed Method of Assembly/Packing

By machine, by hand

Properties of the Packaging

Strength, protection required, size, configuration, commercial viability, technical viability, choice of substrate, environmental conditions

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Suite Packaging

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