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### Overview

This standard involves designing of a green wood product or parts of a product

Designing a green wood trades product or parts of a product will include:

- following a given product specification
- planning and meeting research schedules
- selecting suitable tools, equipment and materials
- adapting methods and techniques
- making prototypes
- identifying a final design specification
- resolving any difficulties
- recording information for costing and stock control

This standard is for a crafts person in the green wood trades who can carry out product design for a complex product or parts of complex products

# LANTw57

## Design a green wood product or parts of a product

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### Performance criteria

*You must be able to:*

- P1 obtain and confirm an accurate, clear and comprehensive product specification
- P2 plan and implement an effective research schedule to meet the required deadlines
- P3 ascertain the practicality and availability of materials and tools and equipment suitable and necessary to meet the final specification
- P4 make a prototype sufficient to confirm the final specification and technique for materials and technical ability
- P5 ensure that the final specification and technique is achievable, economical and fit for purpose
- P6 record clear, sufficient information for accurate costing, stock control and repetition of the materials, designs and techniques used
- P7 identify where design techniques should be adapted so as to meet the product specification more effectively
- P8 identify evaluation criteria which are appropriate to the specification and to your business
- P9 apply evaluation criteria fairly to the product
- P10 judge the product in a manner consistent with the evaluation criteria
- P11 where the product does not meet the criteria, give sufficient, valid and reliable information and propose modifications which would meet the evaluation criteria
- P12 where the products do meet the criteria, communicate this effectively to the relevant people
- P13 record clear, sufficient information for later validation of the evaluation

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### Knowledge and understanding

*You need to know and understand:*

- K1 ways of identifying and resolving problems with specification requirements
- K2 how to interpret specifications presented in written, oral, pictorial and physical form
- K3 how to communicate effectively all aspects of your proposed design to your client
- K4 the visual and physical characteristics of materials
- K5 the implications of health and safety, and other relevant legislation
- K6 sources of information on styles, techniques, historical background and contexts
- K7 different design techniques
- K8 the criteria for deciding whether design techniques should be adapted
- K9 the indicators that a proposed adaptation is required
- K10 how to assess the economic and practical viability of techniques
- K11 how to identify and select evaluation criteria
- K12 how to apply evaluation techniques
- K13 how to apply aesthetic and ergonomic principles
- K14 potential constraints of materials, equipment and technology and techniques
- K15 the health and safety implications when designing products
- K16 your responsibilities under current environmental, health and safety legislation and codes of practice

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