

SKSTEX29 - SQA Unit Code H9EX 04

Contribute to product development



Overview

This standard is for those who are involved in the development process of new or adapted products by carrying out preliminary product development activities, contributing to prototype production and finalising the product.

The job role may involve:

1. Research for relevant information about trends and products
2. Developing product briefs and prototype product specifications
3. Selecting materials, components, machinery and equipment
4. Pilot testing the product
5. Assessing the product against specifications

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Performance criteria

- You must be able to:*
- P1 receive brief and specifications and interpret them accurately
 - P2 conduct market research
 - P3 evaluate the results of the research relevant to the proposed product
 - P4 make recommendations and seek approval to proceed to develop the product
 - P5 collate relevant information and contribute to the development of a product brief
 - P6 contribute to prototype product specifications
 - P7 recommend materials, components, machinery and equipment to be used in prototype production
 - P8 contribute to the production of the prototype product
 - P9 contribute to testing the prototype product and evaluating test results
 - P10 recommend corrective action to resolve problems which occur during prototype production
 - P11 assess the prototype product against specification
 - P12 make amendments to the prototype, specification or production process to achieve the required result
 - P13 ensure product meets costing and commercial requirements
 - P14 record and store amendments to the specification accurately
 - P15 present the results of processing and testing
 - P16 contribute to the review of the product and production process
 - P17 contribute to the development quality requirements
 - P18 make recommendations for sourcing components and materials
 - P19 contribute to a final product specification
 - P20 seek final approval of the product
 - P21 complete and store accurate records and documentation]

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Knowledge and understanding

You need to know and understand:

- K1 how to receive work instructions and specifications and interpret them accurately
- K2 how to interpret and make use of the information detailed in brief, specifications/work instructions
- K3 how to research trends, materials development and market influences
- K4 sources of records, archives and sample libraries and how to make effective use of them
- K5 how to interpret a design brief and customer requirements
- K6 production processes and machine capabilities
- K7 materials and their characteristics
- K8 how to establish the fitness for purpose of the textile product
- K9 the construction of textile products
- K10 how to analyse and assess samples
- K11 how to maintain records
- K12 roles and responsibilities of self and others in the product development process
- K13 organisational guidelines for conducting pre-production trials and tests
- K14 types of records required
- K15 roles and responsibilities of those involved in trials
- K16 methods of evaluating trial results
- K17 methods of improving production efficiency
- K18 quality assurance procedures
- K19 limits and criticalities of machine settings
- K20 sources of information on machinery and process developments
- K21 stages in the manufacturing process
- K22 content of a pre-production specification
- K23 critical path during the pre-production process
- K24 the importance of achieving quality and its relation to the end user / customer
- K25 safe working practices and organisational procedures
- K26 limits of your own responsibility
- K27 ways of resolving with problems within the work area
- K28 the production process and how your specific work activities relate to the whole process
- K29 the importance of effective communication with colleagues
- K30 the lines of communication, authority and reporting procedures
- K31 the organisation's rules, codes and guidelines (including timekeeping)
- K32 the companies quality standards
- K33 the types of records kept, how are they completed and the importance of keeping them accurate
- K34 the importance of complying with written instructions

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- K35 equipment operating procedures / manufacturers' instructions
- K36 statutory responsibilities under Health, Safety and Environmental legislation and regulations

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Developed by	Creative Skillset
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Validity	Current
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Status	Original
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Originating organisation	Creative Skillset
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Original URN	TEX29
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Relevant occupations	Manufacturing technologies; Crafts, creative arts and design; Design Associate Professionals; Textile and Garment Trades
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Suite	Manufacturing Textile Products
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