

SKSTEX28

Conduct pre-production trials



Overview

This standard is for those who are involved in the process of carrying out pre-production trials and monitoring the critical path of trial production prior to bulk production.

The job role may involve:

1. Checking the outcomes of trial production against specifications
2. Selecting materials, components, machinery and equipment
3. Evaluating the results of trials
4. Providing information for bulk production

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Performance criteria

- You must be able to:*
- P1 receive work instructions and specifications and interpret them accurately
 - P2 plan and schedule pre-production trials
 - P3 carry out trials to agreed specification and monitor the process
 - P4 develop a critical path of activities at each stage of the pilot
 - P5 check the outcomes of trial production against specification
 - P6 ensure accurate information, complete specifications and relevant samples are available
 - P7 ensure authority has been given for pre-production trials and is communicated to the relevant people
 - P8 carry out a pre-production trial
 - P9 monitor and record the progress of products during the trial process
 - P10 check products made in pre-production trials meets specifications
 - P11 identify problems and recommend corrective action
 - P12 modify specifications to achieve cost effective results
 - P13 check trial results and products after pre-production methods have been amended
 - P14 evaluate the outcomes of pre-production trial
 - P15 evaluate the potential for bulk processing
 - P16 establish likely materials usage and production rates of bulk processing
 - P17 provide information and trial results to appropriate people
 - P18 recommend ways of improving production efficiency
 - P19 contribute to the development of a final production specification and pass it on
 - P20 record results of the trials following the critical path
 - P21 ensure samples and trial products are approved and authority given for bulk production to commence
 - P22 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 work instructions and specifications and make use of the information
- K3 organisational guidelines for conducting pre-production trials and tests
- K4 types of adjustments permitted
- K5 types of records required
- K6 roles and responsibilities of those involved in trials
- K7 methods of evaluating trial results
- K8 how to measure production rates and usage of materials
- K9 methods of improving production efficiency
- K10 quality assurance procedures
- K11 limits and criticalities of machine settings
- K12 sources of information on machinery and process developments
- K13 content of a pre-production specification
- K14 critical path during the pre-production process
- K15 sample analysis techniques
- K16 appropriate equipment and materials for sample analysis
- K17 the characteristics of materials and their properties
- K18 methods of calculating production resource requirements
- K19 components of a product specification
- K20 technical aspects of product development
- K21 impact of customer requirements on production
- K22 compatibility of machine and product
- K23 organisational procedures for sample production
- K24 sample costing methods
- K25 sample development methods
- K26 content of a sample specification
- K27 alternative methods of production
- K28 ways of adjusting specifications within machine capabilities and cost constraints
- K29 the importance of achieving quality and its relation to the end user/customer
- K30 safe working practices and organisational procedures
- K31 limits of your own responsibility
- K32 ways of resolving with problems within the work area
- K33 the production process and how your specific work activities relate to the whole process
- K34 the importance of effective communication with colleagues
- K35 the lines of communication, authority and reporting procedures
- K36 the organisation's rules, codes and guidelines (including timekeeping)

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- K37 the companies quality standards
- K38 the types of records kept, how are they completed and the importance of keeping them accurate
- K39 the importance of complying with written instructions
- K40 equipment operating procedures / manufacturers' instructions
- K41 statutory responsibilities under Health, Safety and Environmental legislation and regulations

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Originating organisation	Creative Skillset
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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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