

SKSTEX31

Develop colour recipes for initial colour samples



Overview

This standard is for those who develop colour recipes and samples including making colour assessments, formulating a trial recipe and producing initial colour sample.

The job role may involve:

1. Assessing customer requirements
2. Using colour matching procedures
3. Selecting suitable colorants for the substrates
4. Establishing colourfastness
5. Formulating trial recipes
6. Producing the sample

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Performance criteria

- You must be able to:*
- P1 receive work instructions and specifications and interpret them accurately
 - P2 assess customer requirements against production facilities
 - P3 match colours against customer standards using appropriate colour matching methods
 - P4 select colorants suitable for the substrate
 - P5 establish colour fastness and consistency in different types of light
 - P6 collect and evaluate colour
 - P7 make and record the colour assessment
 - P8 assess relevant technical information
 - P9 formulate a trial colour recipe
 - P10 select colorants and auxiliary materials suitable for the substrate and end use of the product
 - P11 select coloration equipment
 - P12 identify a sample production cycle which is compatible with bulk production methods
 - P13 produce an initial colour sample
 - P14 assess shade requirements and substrate characteristics
 - P15 confirm that the nature and condition of substrate are suitable for processing
 - P16 assess the sample produced against the required standard using relevant colour matching methods
 - P17 make adjustments as necessary to achieve the required shade
 - P18 produce accurate and complete coloration instructions
 - P19 seek customer approval
 - P20 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 make use of the information detailed in specifications and instructions
- K3 how to assess customer requirements
- K4 how to make use of the information detailed in specifications and instructions
- K5 how to carry out sample preparation for visual and instrumental measurement and assessment
- K6 production capacities and capabilities
- K7 colour matching methods
- K8 characteristics of colour reference systems and their use
- K9 use of assessment instruments
- K10 sources and nature of colour libraries and their use
- K11 critical factors used in the selection of colorants
- K12 how to evaluate the condition of the substrate
- K13 how to formulate recipes and adjust formulations to achieve the required shade and characteristics
- K14 coloration systems and process routes
- K15 machine characteristics and capabilities
- K16 properties of dyestuffs
- K17 types of auxiliary materials and their use
- K18 the characteristics of different types of finishing and after treatments and their effect on coloration
- K19 the behaviour of substrates during processing and their effect on dyestuffs
- K20 working practices which conform to environmental legislation
- K21 types of waste and safe methods of disposal
- K22 bulk processing methods
- K23 coloration equipment used for sampling procedures and how it relates to bulk production methods
- K24 how to calculate accurate measures for dyes and auxiliaries
- K25 types of records to be kept
- K26 the costs of substrates, colorants and auxiliary materials and their effect on production
- K27 sample approval methods
- K28 the importance of achieving quality and its relation to the end user/customer
- K29 safe working practices and organisational procedures
- K30 limits of your own responsibility
- K31 ways of resolving with problems within the work area

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- K32 the production process and how your specific work activities relate to the whole process
- K33 the importance of effective communication with colleagues
- K34 the lines of communication, authority and reporting procedures
- K35 the organisation's rules, codes and guidelines (including timekeeping)
- K36 the companies quality standards
- K37 the types of records kept, how are they completed and the importance of keeping them accurate
- K38 the importance of complying with written instructions
- K39 equipment operating procedures / manufacturers' instructions
- K40 statutory responsibilities under health, safety and environmental legislation and regulations

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Developed by	Creative Skillset
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Originating organisation	Creative Skillset
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Original URN	TEX31
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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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