

SKSFL5 – Create digitised patterns using CAM systems(SQA Unit Code- H7C4 04)

Overview:

This standard is for those who create patterns using CAM systems for footwear and is about liaising with customers to confirm the design of the pattern, types of materials to be used, quantity and sizes required and the creation of digitised patterns using computer-aided manufacturing systems.

You need to know the principles of pattern cutting and grading, CAM systems and their capabilities, the benefits of pattern standardisation and how to digitise patterns to ensure optimum shape and sizing.

The job role may involve:

1. creating patterns using computer-aided manufacturing systems

Performance Criteria:

- P1 make sure the work area is free from hazards
- P2 liaise with the relevant person to confirm
 - P2.1 when the pattern is required
 - P2.2 the main features of the design for the pattern
 - P2.3 the types of materials which will be used
 - P2.4 the last style, quantity and size ratio
- P3 digitise the agreed design into the standard shape and size
- P4 confirm the changes and amendments that need to be made to the patterns once the trial has been inspected
- P5 make adjustments to the pattern to compensate for problems identified during the trial
- P6 ensure the pattern is recreated in sections to the agreed design
- P7 ensure stitch markers and other information is available for production to take the pattern forward
- P8 prepare the relevant technical specification for the agreed design and make it available to those who produce a factory production trial
- P9 shut down, after use, the CAM system carefully and in accordance with company instructions
- P10 comply with written instructions
- P11 complete forms, records and other documentation
- P12 work to legal requirements, standards and regulations, policies, procedures and professional codes

Knowledge and Understanding:

- K1 the principles of pattern cutting and grading
- K2 the importance of pattern trials
- K3 the principles of CAM systems
- K4 the benefits of pattern standardisation as applied to CAM systems
- K5 the main pattern creation capabilities of the CAM system
- K6 how to digitise the patterns and ensure optimum shape and sizing
- K7 the main information required to use digitising equipment
- K8 how to start, operate and close down the CAM system
- K9 the information required about the last style, quantity and size ratio
- K10 the importance of recording information clearly about alterations and amendments required to the agreed design and pattern
- K11 the information required by those making the factory production trial and subsequent production
- K12 the importance of recording information clearly about alterations and amendments required after the factory production trial has been inspected
- K13 the organisation's rules, codes, guidelines and standards