

## Create a prosthetic effect

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### Overview

This standard involves creating a prosthetic for use in a production.

It assumes you have the required knowledge and ability to create prosthetics and a thorough understanding of the hazards involved.

You will need to be able to plan, sculpt, mould, run and apply prosthetics.

You will need to work in collaboration with various production personnel, in particular with costume and wardrobe, props and stunt departments to achieve the desired effect.

This standard will be appropriate for you if you create and apply prosthetics.

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**Performance criteria**

- You must be able to:*
- P1 liaise with appropriate people and departments about prosthetic requirements
  - P2 use reliable sources to research prosthetic effects that are authentic and appropriate
  - P3 create prosthetics in line with production requirements, script/breakdown and budget
  - P4 prepare cores and casts that are suitable to work from
  - P5 carry out final moulding and casting of prosthetic pieces using appropriate materials to meet production requirements
  - P6 provide documentation when required, outlining any necessary safety procedures
  - P7 maintain the safety of cast and crew at all times
  - P8 ensure that any fire masks used are made to a minimum thickness and are quick release
  - P9 liaise and work in collaboration with relevant people to ensure that all prosthetic effects are safe at all times
  - P10 monitor people using prosthetics at all times so as to ensure there are no allergic reactions, excessive changes in body temperature or effects on their ability to function with ease
  - P11 act without delay and in accordance with health and safety instructions in the event that a prosthetic-related incident occurs on set or in a workshop
  - P12 remove prosthetics in line with safety requirements
  - P13 provide alternative solutions in line with production requirements and budget if prosthetics cannot be produced to the original design or budget
  - P14 document risk assessment and risk management in appropriate formats

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## Knowledge and understanding

- You need to know and understand:*
- K1 who to liaise with in production, and in particular costume and wardrobe, props, special effects and stunt departments about the prosthetics needed and their safety requirements
  - K2 cuts, abrasions, wounds and human anatomy
  - K3 how to use artificial blood products and blood rigs
  - K4 the correct body temperatures to maintain when using creature costumes
  - K5 how to research specific prosthetics to assure they are authentic and appropriate to script requirements
  - K6 specific techniques to use for ageing prosthetics
  - K7 the processes undertaken to carry out life casts and materials needed for this
  - K8 sculpting, moulding and casting materials and techniques
  - K9 the importance of fire masks and their manufacture for use in a stunt body burn
  - K10 air supplies and equipment
  - K11 the potential outcomes of not using materials appropriately or correctly and the immediate measures to take
  - K12 potential allergic reactions which can occur when using prosthetics, how to recognise them and how to act accordingly
  - K13 how to carry out extensive tests in a suitable workshop environment and the importance of having all tests documented or videoed to avoid unnecessary danger
  - K14 how to remove make up/prosthetic safely
  - K15 animatronics and their use in creating a special effects prosthetics
  - K16 what can be achieved in post production and through using visual effects

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