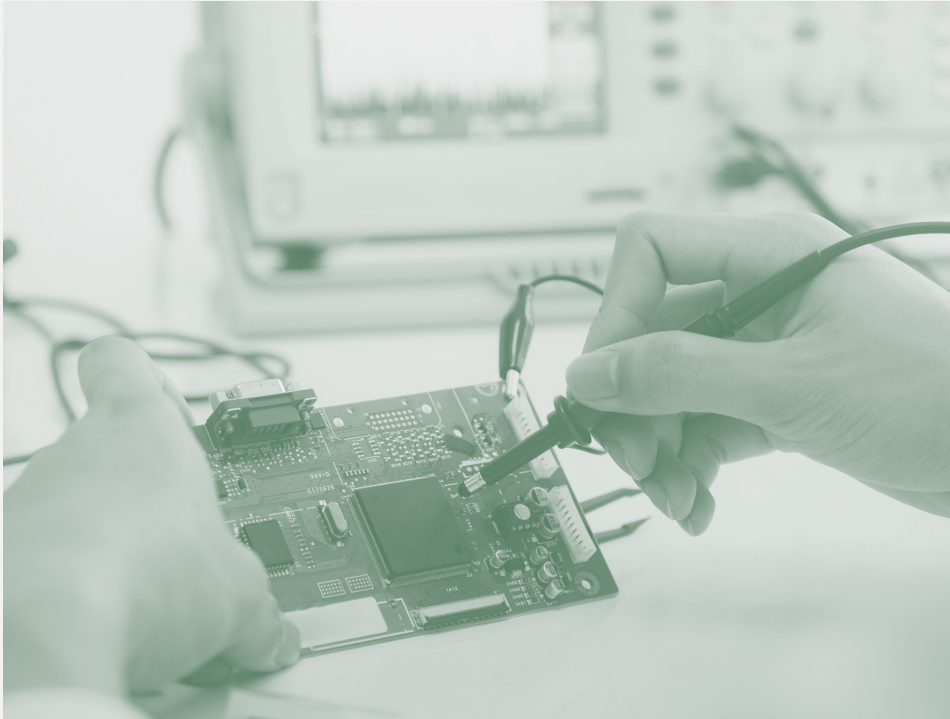


Healthcare Science Assistant Level 2 Programme Plan – Medical Engineering Pathway

Duration: 8-14 months + End-Point Assessment (EPA)



CORE PROGRAMME DELIVERY

All learners complete a core Healthcare Science programme covering:

- Being a Successful Student & Scientist
- Health, Safety and Security
- The Role of the Healthcare Scientist
- Quality, Research and Innovation
- Principles and practice of Patient Care
- Health and Disease (dependant on pathway)

These sessions provide the foundations required to work safely and effectively within Healthcare Science services.

PROGRAMME STRUCTURE

The Healthcare Science Assistant Level 2 apprenticeship develops the knowledge, skills and behaviours required to work safely and effectively within Healthcare Science services.

The Medical Engineering pathway is designed for learners working within clinical engineering and medical equipment services. Apprentices develop an understanding of medical devices, equipment management, maintenance processes, infection prevention and the contribution of engineering services to patient care and healthcare delivery.

The apprenticeship is delivered through:

- Remote interactive workshops
- Medical Engineering units
- Workplace competency development
- Portfolio-based assessment through OneFile
- Regular coaching and progress reviews
- Gateway and End-Point Assessment preparation

Learning is applied directly within healthcare engineering environments to support safe and effective patient care.

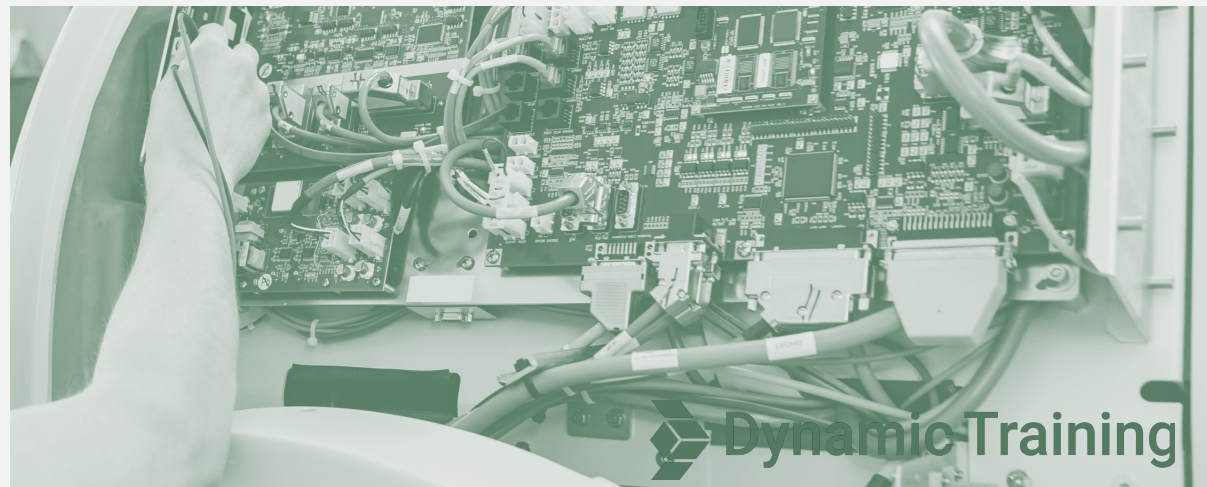
ASSESSMENT METHODS

Assessment is portfolio-based and demonstrates competence in both knowledge and workplace practice.

Examples include:

- Knowledge workbooks
- Professional discussions
- Reflective accounts
- Workplace observations
- Witness testimonies
- Photo diaries
- Work logs
- Competency records
- Product evidence

All evidence is uploaded and reviewed through the OneFile e-portfolio system.



Healthcare Science Assistant Level 2 Programme Plan – Medical Engineering Pathway

Total off the Job Hours: 326

OFF-THE-JOB LEARNING ACTIVITIES

Learners complete approximately 386 hours of Off-the-Job Learning throughout the apprenticeship. This learning takes place during paid working hours and supports the development of apprenticeship knowledge, skills and behaviours.

Activities include:

Core Learning

- Workshops and tutorials
- Independent research and study
- Reflective practice
- Portfolio development

Workplace Learning

- Shadowing clinical engineering staff
- Observation of equipment maintenance activities
- MDT activities
- Competency development
- Service improvement activities

Specialist Learning

- Medical equipment servicing activities
- Equipment testing and quality checks
- Infection prevention and control activities
- Medical device management processes
- Clinical area visits to observe equipment use
- Quality meetings and audit activities
- PPE and decontamination procedures
- Technical workshop activities

SPECIALIST PATHWAY DELIVERY – MEDICAL ENGINEERING

Specialist learning focuses on the knowledge and skills required to support clinical engineering and medical equipment management services.

Topics include:

- Causes of disease and maintaining health
- Infection prevention and control
- Healthcare-associated infections
- Medical engineering principles
- Clinical engineering workshop practice
- Medical device maintenance and management
- Equipment safety and quality assurance
- Medical equipment used in patient care
- Personal protective equipment (PPE)
- Decontamination and waste management
- Team working and professional practice

Learners develop practical workplace skills whilst supporting the maintenance, testing and management of medical equipment used across healthcare services.

END-POINT ASSESSMENT (EPA)

The apprenticeship concludes with an independent End-Point Assessment delivered by the National School for Healthcare Science (NSHCS).

Assessment includes:

- Observation of Practice with Questions
- Professional Discussion
- Portfolio Review

Successful apprentices achieve the nationally recognised:

- Healthcare Science Assistant Level 2 Apprenticeship Standard.

PROGRESSION OPPORTUNITIES

Following successful completion, learners may progress to:

- Senior Healthcare Science Assistant roles
- Medical Engineering and Clinical Engineering support roles
- Level 4 Healthcare Science Associate Apprenticeships
- Biomedical Engineering pathways
- Medical Device and Equipment Management roles
- Other Healthcare Science specialisms

PROGRAMME OUTCOME

Apprentices will be able to:

- Support clinical engineering and medical equipment services
- Apply infection prevention and control principles in practice
- Assist with the maintenance and management of medical devices
- Contribute to equipment quality assurance processes
- Work safely within healthcare engineering environments
- Apply quality, governance and safety standards
- Work effectively within multidisciplinary teams
- Contribute to positive patient outcomes through safe equipment management



Dynamic Training

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