

Stairlift, Platform Lift, Service Lift Electromechanic Apprenticeship Standard

1. Occupations

The occupations covered by this Standard are associated with the installation, servicing, repair and refurbishment of Stairlifts, Platform Lifts and Service Lifts to industry specific safety standards.

- **Stairlift Installation Electromechanic:** Installing Stairlift systems in new or existing buildings, including mechanical, electrical and electronic equipment.
- **Stairlift Service and Repair Electromechanic:** Diagnosis, service, repair and maintenance of Stairlifts, including mechanical, electrical and electronic equipment.
- **Platform/Service Lift Installation Electromechanic:** Installing Platform Lift systems in new or existing buildings, including mechanical, electrical and electronic equipment.
- **Platform/Service Lift Service and Repair Electromechanic:** Diagnosis, service, repair and maintenance of Platform Lifts, including mechanical, electrical and electronic equipment.

A Stairlift is a mechanism used for transporting less able persons up and down stairways. A Platform Lift is a mechanism to raise a wheelchair and its occupant to overcome a step or similar vertical barrier. A Service Lift (also known as a Dumb-waiter) is a mechanism used for transporting goods from one floor to another.

2. Occupational Profile

Stairlift, Platform Lift and Service Lift Electromechanics carry out the assembly, diagnosis, repair and maintenance of mechanical, hydraulic and electrical and electronic components forming Stairlifts, Platform Lifts and Service Lifts, following safe systems of work.

They are able to work on their own, proficiently, without immediate supervision in the most efficient and economical manner. They are able to set out jobs from drawings and specifications and requisition the necessary installation materials.

Electronic and mechanical fault finding is an essential part of the skills being gained using various diagnostic routines and equipment to perform these duties in an efficient and safe manner.

On completion of their work, the lift or escalator must be safe to use. They must adhere to safe working practices without endangering themselves or others and that the unit meets the requirements of the machinery directive.

3. Knowledge, Skills and Behaviors

Core knowledge	Performance outcome
Health and Safety	Describe the risk assessment of activities and the importance of behaviours in safety-critical environments
Mechanical	Describe the principles and operation of components making a Stair lift, Platform Lift or Service Lift system. Describe the use of tools and measuring instrumentation and fault-finding techniques for mechanical equipment.
Hydraulic	Describe the principles and operation of hydraulic components making up a Platform Lift or Service Lift system. Describe the use of tools and measuring instrumentation and fault-finding processes for hydraulic systems.
Electrical and electronic technology	Describe the principles and operation of electrical and electronic control systems. Describe the use of tools and measuring instrumentation and fault-finding processes for electrical/electronic systems.
Engineering drawings and regulations.	Describe engineering drawings, documentation, regulations, standards and manuals.
Optional Knowledge	Performance outcome
Installation	Describe the principles, practices and legislation for the installation and testing of Stair lift, Platform Lift and Service Lift systems
Service and repair	Describe the principles, practices and legislation for the servicing and maintenance

	of Stair lift, Platform Lift and Service Lift systems
Core Skills	Performance outcome
Health and Safety	Be able to carry out risk assessments, identify, and apply appropriate control measures to reduce health and safety risks.
Mechanical technology	Be able to select adjust and set up mechanical components as per product design, including safety components, and be able to use mechanical equipment such as torque wrenches, measuring equipment etc.
Hydraulic technology (Platform and service lifts)	Be able to set up hydraulic systems used on platform and service lifts, replace hydraulic components, and check hydraulic components for correct operation.
Electrical and Electronic Technology	Be able to use electrical and electronic measuring tools, to carry out fault diagnosis using a range of approved methods. Be able to Wire a system as per the electrical wiring schematic.
Documentation	Be able to read engineering drawings and documentation, regulations, standards and manuals, and use them to carry out fault diagnoses, inspection and repair, and be able to write reports legibly.
Planning and Organising Work	Be able communicate with the customer in a professional manner and schedule work efficiently.

Behaviours	Performance outcome
Health and Safety	Ability to work safely and awareness of their actions and the effects of their acts or omissions on others
Judgement	Able to make decisions concerning problem-solving within their own level of competence and to know when to seek advice
Team Working	Ability to work with others; clients, colleagues, suppliers and members of the public
Self-motivation	A strong work ethic and commitment to self-development. Able to make independent decisions concerning their work practice
Communication	Effective communication with managers and clients, and able to contribute to team meetings
Environment	Maintenance of tidy working areas
Ethics	Work to industry Codes of Practice for safe working

4. Duration

The duration of this Apprenticeship would typically be for 24 months. This may be reduced or extended by previous relevant experience or part qualification to enable inclusive opportunities.

5. Entry Requirements

Two GCSEs or Level 2 equivalent including Math's, English or a science / technology based subject. Learners must have achieved Level 2 in both Math's and English, prior to completion of the Apprenticeship. Consideration can be given to previous experience to enable inclusive opportunities.

6. Qualification

The apprentice will achieve industry recognised qualifications in safety and the relevant engineering discipline they will follow at level 2.

7. Level

This is a Level 2 Apprenticeship.

7. Review Date

This Standard will be reviewed in 3 years.