

Overview of the role

Installing a wide range of replacement and new build fenestration products in a property or structure.

Standard in development

L2: Fenestration installer

Title of occupation

Fenestration installer

UOS reference number

ST0743

Core and options

No

Option title/s

Level of occupation

Level 2

Route

Construction and the built environment

Typical duration of apprenticeship

18 months

Target date for approval

01/01/0001

Resubmission

No

Would your proposed apprenticeship standard replace an existing framework?

No

Does professional recognition exist for the occupation?

No

Occupation summary

This occupation is found in both the new build and refurbishment construction sector. Projects include dwellings and non-dwellings, ranging from windows, doors, bi-fold doors in homes and public houses through to large new build office and housing developments. Fenestration is the arrangement and design of windows and other external glazed elements in a building with the exception of curtain walling. It can often be the most impressive feature of a building and covers a range of products e.g. windows, doors, bi-folds, rooflights and conservatories. Companies range in size from local micro businesses servicing only the domestic market and sourcing their products from manufacturers or trade suppliers through to large national employers who both manufacture and fit a wide range of fenestration products for dwellings and non-dwellings.

The broad purpose of this occupation is the on-site installation of a wide range of replacement and new build fenestration products in a property or structure. This could include windows, doors, bi-fold doors, and conservatories. Installers work with a broad range of materials (e.g. PVC-U, aluminium, steel, timber and composite) and a wide variety of building structures and building methods. The work is usually conducted on-site with a combination of working on the exterior of a building as well as from inside the building, sometimes at height and in varying weather conditions. This occupation can progress to more specialist occupations through further training, e.g. curtain walling, surveying, and working on high-rise high-risk buildings which must comply to specific regulations since the Grenfell fire.

In their daily work, an employee in this occupation interacts with colleagues both on site (installation team and other trades) and office based (e.g. line manager, supervisor, customer service, designers). Installers often work as part of small teams either directly for end customers such as small shop owners, landlords, tenants or individual home owners or in large scale projects for developers. Therefore, they occasionally interact with site managers, architects and other trades.

An employee in this occupation will be responsible for completing their own work, with minimal supervision, ensuring they meet installation quality standards and deadlines. They may work as part of a team, with responsibility for a specific aspect of the installation, contributing to the completion of the project. As part of this, they will be expected to liaise with various clients some of whom may be and be aware of relevant legislation and regulations related to how they interact with clients, their working environment and work within these limitations.

Typical job titles

Fenestration installer Window and door installer Window fitter Window installer

Are there any statutory/regulatory or other typical entry requirements?

No

Occupation duties

DUTY	KSBS
Duty 1 Work in compliance with Health and Safety, and environmental requirements considering the Health and Safety of self and others. Report in a timely manner any non-compliances to the relevant person.	K1 K2 K3 K6 K7 K8 K15 K16 K17 K18 K19 K20 K21 K22 K23 K24 K25 K26 K33 K34 S1 S2 S3 S4 S5 S6 S8 S10 S12 S13 S19 S20 S23 B1 B2 B4 B5 B6
Duty 2 Identify and confirm fenestration installation requirements and components.	K1 K4 K5 K6 K7 K8 K9 K11 K12 K13 K14 K19 K20 K24 K25 K35 S1 S2 S4 S5 S6 S7 S14 B2 B5 B6
Duty 3 Interpret the appropriate work plan for the job, taking into account factors such as environmental, structural, contractual and specification.	K1 K4 K5 K7 K8 K9 K12 K13 K24 K25 K32 K35 S1 S2 S4 S5 S6 S7 S13 S14 B2 B4 B5 B6
Duty 4 Locate, handle, store, load, transport and position fenestration materials and components safely.	K1 K2 K4 K5 K7 K8 K12 K13 K14 K19 K20 K21 K24 K25 K35 S1 S2 S5 S6 S7 B2 B5 B6
Duty 5 Prepare the site, plant, equipment and	K1 K2 K4 K5 K7 K8 K9 K11 K12 K13 K18 K19 K20 K21 K24 K25 K35 S1 S2 S5 S6 S7 S9 S14 S15 B2 B5 B6

DUTY	KSBS
access ready for installation.	
Duty 6 Remove existing fenestration, understanding what action should be taken or who to report situations to if problems arise	K1 K2 K4 K5 K7 K8 K9 K11 K12 K13 K19 K20 K23 K24 K25 S1 S2 S5 S6 S12 S14 S15 B2 B5 B6
Duty 7 Take steps to ensure structural stability using structural supports.	K1 K2 K12 K13 K18 K24 K25 S1 S2 S11 S12 B2 B5 B6
Duty 8 Prepare the apertures, appropriate to the property	K1 K2 K12 K13 K14 K24 K25 K26 S1 S2 B2 B5 B6
Duty 9 Fix fenestration units in place	K1 K4 K11 K12 K26 S1 S2 B2 B5 B6
Duty 10 Install glass units, infill panels and hardware	K1 K4 K5 K11 K16 S1 S2 S10 S16 S17 S18 B2 B5 B6
Duty 11 Make good and apply internal & external finishes	K1 K28 K29 K30 S1 S2 S10 S19 S20 B2 B5 B6
Duty 12 Maintain a clean and tidy work area throughout and upon completion of the works	K1 K3 S1 S2 S4 S8 B2 B3 B5 B6
Duty 13 Conduct	K1 K9 K10 K14 K19 K27 K28 K29 K30 S4 S14 S21 S22

DUTY	KSBS
interim and final inspections of the work and work area	B2 B5 B6
Duty	
14 Demonstrate the product and handover	K1 K5 K7 K8 K9 K10 K19 K31
installation	S5 S6 S14 S22 S23
paperwork	B2 B3 B5 B6

KSBS

Knowledge

K1: Awareness of health and safety regulations, standards, and guidance (Emergencies and First Aid provision and mandatory reporting of accidents and near misses) and impact on role. Control of Substances Hazardous to Health (COSHH). Fire safety. Health and Safety at Work Act. Asbestos awareness. Manual handling. signage, fire extinguishers. Safety signage. Situational awareness. Slips, trips, and falls. Working in confined spaces. Working at height. Electrical safety, , emergency stop procedures. Lone working. Safety equipment and guards on machinery and power tools.

K2: Safety Control equipment and how to use personal protective equipment (PPE) Respiratory protective equipment (RPE) and dust suppression

K3: Plan and prepare a safe working area: Site specific inductions, risk assessments, method statements and hazard identification in the work area

K4: Fenestration installation industry: domestic and commercial

K5: Characteristics, qualities and uses of fenestration products and an awareness of specialist products for enhanced performance, safety, security and fire rating

K6: Principles of window and door set: Window and Door set Energy Ratings and U values

K7: Verbal communication techniques. Giving and receiving information. Matching style to audience. Barriers in communication and how to overcome them. Fenestration terminology

K8: Traditional written and digital communication techniques within the fenestration industry

K9: Methods of interpreting and extracting relevant information from drawings, specifications, digital documents and work instructions, including manufacturers instructions

K10: Information required to complete quality checks and reports

K11: Mechanical properties, use and limitations of fenestration materials: aluminium, steel, timber, composites, PVC-U

K12: Positioning and installation techniques of frames

K13: Fixtures and fastening purpose and use: Handles, hinges, locks, ventilators and louvers

K14: Principles and purpose, use and storage of waterproofing products and systems: gaskets, DPCs, membranes, sealants, weather seals, drainage systems, vertical damp proof course and damp proofing under doors

K15: Installation of Insulating Glass Unit (IGU); correct orientation of unit (low e glass or coated glass), location on the façade, safety glass

K16: Principles of glazing systems: drainage, solid bedded systems, toeing and heeling (including packing of), system required holes such as pressure equalisation or weep holes

K17: Legislation, standards and regulations associated with fenestration activities: UKCA (UK Conformity Assessed) marking, Secured by Design, Building Regulations

K18: Principles of buildings: structural support, cavity wall, timber frame, steel frame.

K19: Methods of removing existing fenestration products components

K20: Identification of structural requirements including temporary support for installation of fenestration products

K21: Moving, handling and storing of materials, including loading and unloading of vehicles

K22: Awareness of environmental and sustainability regulations, Impact of the sector on the environment. Efficient use of resources, energy efficiency measures, types of external and internal insulation. Recycling. Recycling, reuse and safe disposal of waste.

K23: Responsibilities and methods for reporting non-compliance

K24: Tools and equipment used in fenestration installation: power tools, hand tools, cutting tools and measuring equipment

K25: Techniques for measuring, marking and drilling materials to reduce waste

K26: Methods of fixing: pack the frame in the aperture, selection of correct fastener or anchor, plug and screw, fix with sleeved anchors, brick screws, window lugs and door straps

K27: Interim inspection requirements: windows and doors are in working order to meet manufacturers' instructions, cleaning of frame rebates, cleaning of joints, de-burring of trickle vents including excess swarf. Operation of locks and hardware

K28: Methods of internal and external finishing: making good any damage, priming, sealing, trimmings, mouldings, backer rod or foam, scribing, trimmings, flashings, perimeter pressings and cladding

K29: Pre handover checks: Investigation of snags and snagging techniques

K30: Final inspection requirements: Final removal of all protective films, cleaning of glass and frames, cleaning of joints

K31: Handover process to commercial and domestic customers

K32: Contractual arrangements; penalty clauses, customer rights and product as described

K33: Inclusion, equity and diversity in the workplace

K34: Well-being: mental and physical health considerations in self and others and how to access support

K35: Planning techniques: Order of works pre-installation checks, product and specification checks and aperture checks

Skills

S1: Comply with Health and Safety regulations, standards and guidance

S2: Identify and use personal protective equipment (PPE)

S3: Comply with industry regulations, standards and guidance

S4: Read, interpret, review risk assessments, implement control measures and update

S5: Use written methods to communicate with others

S6: Communicate with others verbally for example, colleagues and stakeholders.

S7: Plan order of works, carry out pre-installation checks, ensure the products are correct to the specification and the right size to fit the aperture

S8: Prepare and maintain a safe working area

S9: Select and check tools and equipment

S10: Safely move, handle and store materials, including loading and unloading of vehicles

S11: Identify, install and remove temporary support requirements

S12: Remove existing fenestration products and prepare openings for installation

S13: Comply with environmental and sustainability regulations, standards, and guidance, recycling and disposal
S14: Read and interpret information from manufacturers guidance and other sources, for example from drawings, specifications, digital documents or work instructions.
S15: Prepare the frame for installation for example handles, hinges, locks, hardware, trickle vents or frame extensions
S16: Position and fix the frame in the opening ensuring level, plumb and square
S17: Position and install sashes
S18: Position and install, glazing and any infill materials into the frame
S19: Measure, cut, drill and fix trims
S20: Apply external seals for moisture and air penetration. For example, wet sealants, tapes, membranes and any associated products
S21: Interim inspection work and final inspection work, rectify or report any work that is incorrect or incomplete
S22: Complete final inspections and workplace documentation
S23: Complete a customer or site manager handover

Behaviours

B1: Put Wellbeing, Health and Safety first
B2: Take ownership of given work
B3: Maintain working relationships with colleagues, customers and others
B4: Consider the environment when using resources and carrying out processes
B5: Seek learning and development opportunities
B6: Contribute to an inclusive and diverse culture

Qualifications

English and Maths

English and maths qualifications form a mandatory part of all apprenticeships and must be completed before an apprentice can pass through gateway. The requirements are detailed in the current version of the [apprenticeship funding rules](#).

Does the apprenticeship need to include any mandated qualifications in addition to the above-mentioned English and maths qualifications?

No

Consultation

Progression Routes

Supporting uploads

Mandatory qualification uploads
Mandated degree evidence uploads
Professional body confirmation uploads

Involved employers

The Window Company, Sunray Construction, UK Glass Force, Nationwide Windows, Eurocell, Anglian Home Improvements, Synseal/Global Glass, Rehau, Saint Gobain, Prentice Glass, Cornwall Glass & Glazing, Everest, SAS (Senior Architectural Systems), VPS Evander, Continental Installations, Comar Architectural Aluminium Systems (Parkside Group), Safestyle, Emplas Window Systems Ltd, Glazerite UK Group Limited, Corgi, GGF, Certass, Fensa