

# Steelfixer: Standard ref: ST0271 18-week programme

## Framework delivery model

Subject	No. of weeks	Content
<b>Pre-arrival, L1 to be complete prior to college enrolment</b>		
Functional skills	–	Induction L1/L2 Literacy L1/L2 Numeracy
<b>Block 1: 2 weeks</b>		
Health and safety	1	HASAWA 1974; PUWER; LOLER; COSHH; general site safety; spaced learning; Prevent training
Steelfixing fundamentals	1	Glossary of terms used; types and quality of steel available; traceability; good practice standards; purpose, use and interpretation of drawings and schedules
Remote, independent and work-based learning	–	Levelling up of functional skills; levelling up of study skills; weekly completion of site diary; regular performance review with employer
<b>Block 2: 4 weeks</b>		
Levelling and setting out (LSO)	1	Instruments and techniques in LSO; LSO practices
Practical exercises: Basic floor slab Basic wall	1	Bar selection; marking out and setting out, referencing simple drawings; correct use of spacers and use of temporary bars for stability; use of different ties, as appropriate
Practical exercise: Basic beam cage	1	Compression beam and cantilever beam using simple links and stirrups, and appropriate ties and temporary bars for stability
Slinger/signaller Abrasive wheels Mobile towers	1	Safe lifting techniques; resources/prefabricated elements; use of abrasive wheels; safely erect and use mobile tower
Remote, independent and work-based learning	–	Weekly completion of site diary; regular performance review with employer
<b>Block 3: 4 weeks</b>		
Practical exercises: Basic column fabrication Pile cage Pile caps	1	Prefab round and square/rectangular columns; prefab pile cages; prefab and in-situ pile caps
Construction technology, information and communication 1	1	Traditional and modern construction methods; technology and systems of work in different industry sectors

<b>Cutting, bending and joining</b>	1	Methods of cutting rebar; tolerances; bending rebar by mechanical means (hand and power benders); correct use of formers and rebar couplers
<b>Practical exercise: Ground beams with beamform, anchors and features</b>	1	Assemble ground beams with beamform; place and securely fix anchor bolts; place column starters/upstands
<b>Remote, independent and work-based learning</b>	–	Weekly completion of site diary; regular performance review with employer
<b>Block 4: 4 weeks</b>		
<b>Construction technology, information and communication 2</b>	1	Building information modelling (BIM); drawings; methods of communication; environmental factors; contaminated ground
<b>Practical exercise: Floor slab with features</b>	1	Accurate marking out and fixing of in-situ cut-outs/apertures; column and wall starters; upstands
<b>Practical exercise: Walls with features</b>	1	Doorways; typical corners; sloping walls
<b>Preparation and recap for assessments; Enrichment 1</b>	1	Recap, practice and preparation; enrichment activities (practical skills)
<b>Remote, independent and work-based learning</b>	–	Weekly completion of site diary; regular performance review with employer
<b>Block 5: 4 weeks</b>		
<b>Practical exercise: Column fabrication</b>	1	Complex column fabrication; mock synoptic
<b>Practical exercises: Pile cap fabrication Beam fabrication</b>	1	Pile cap fabrication; beam fabrication; mock synoptic
<b>Practical exercise: Wall construction in situ</b>	1	Wall construction in situ; mock synoptic
<b>Preparation and recap for assessments; Enrichment 2</b>	1	Recap, practice and preparation; enrichment activities (higher study)