

Steelfixer: Framework delivery model

Standard ref: **ST0271**

18-week programme

Subject	No. of weeks	Content
Pre-arrival, L1 to be complete prior to college enrolment		
Functional skills	–	L1/L2 Literacy L1/L2 Numeracy
Block 1: 2 weeks		
Health and safety training	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; fundamental aspects of purpose, use and interpretation of drawings and schedules
Block 2: 4 weeks		
Levelling and setting out (LSO)	1	Instruments and techniques in LSO; LSO practices
Steelfixing practical exercise: basic floor slab, basic wall	1	Bar selection; marking out and setting out; referencing simple drawing; correct use of spacers and use of temporary bars for stability; using different ties as appropriate
Steelfixing practical exercise: basic beam cage	1	Compression and cantilever beams, using simple links and stirrups, 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
Block 3: 4 weeks		
Steelfixing practical exercise: basic column fabrication, pile cage and 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
Steelfixing: cutting and bending and joining	1	Methods of cutting rebar; tolerances; bending rebar by mechanical means (hand and power benders); correct use of formers; rebar couplers
Steelfixing practical exercise: ground beams with beamform, anchors and features	1	Assemble ground beams with beamform; place and securely fix anchor bolts; place column starters/upstands

Block 4: 4 weeks		
Construction technology, information and communication 2	1	Building information modelling (BIM); drawings; methods of communication; environmental factors; contaminated ground
Steelfixing practical exercise: floor slab with Features	1	Accurate marking out and fixing in-situ of cut-outs/apertures, column and wall starters, upstands
Steelfixing practical exercise: walls with features	1	Doorways; typical corners; sloping walls
Preparation and recap for assessments; Enrichment 1	1	Recap, practice and preparation; enrichment activities (practical skills)
Block 5: 4 weeks		
Steelfixing practical exercise: column fabrication	1	Complex column fabrication; mock synoptic
Steelfixing practical exercise: pile cap fabrication and beam fabrication	1	Pile cap fabrication; beam fabrication; mock synoptic
Steelfixing practical exercise: wall construction in-situ	1	Wall construction in-situ; mock synoptic
Preparation and recap for assessments; Enrichment 2	1	Recap, practice and preparation; enrichment activities (higher study)