

CAD FOR PROFITABLE TAKE-OFFS

SKILLS BOOTCAMP

Funded by



Department
for Education

INTRODUCTIONS

- Course outline
- Expectations on attendance
- Learner goals and expectations / Professional Development Plan
- Learning style survey
- How to submit home work
- Software check - EstimatorXpress / PlansXpress / Health & Safety Xpert

INTRODUCTION TO BUILT ENVIRONMENT

- What makes a building work
- Understanding the client's brief
- Understanding the site
- Introduction to building regulations

BENEFITS OF DIGITISATION 'BIM AWARENESS'

- Introduction to reading building plans
- Introduction to BIM (Building Information Modelling)
- Connected projects and productivity improvements

READING BUILDING PLANS

- Building plan types
- How to read building plans (examining types/styles of drawings for varying residential project types)
- Quality of specification / data available
- Measuring off plans (scaling / tools available / pitfalls)

GETTING STARTED WITH DIGITAL TAKE-OFFS USING PLANSXPRESS - HOUSE CASE STUDY

- Introduction to PlansXpress and typical use cases - what is PlansXpress?
- Creating a new drawing and choosing your template
- Orientation to PlansXpress (tabs and docked windows)
- Using the Mouse
- Basic drawing techniques (different shapes / moving items / copying & pasting / undo & redo)
- Importing PDFs to take-off into PlansXpress
- Drawing Construction Lines

DRAWING THE GROUND FLOOR EXTERNAL ENVELOPE

- Drawing External Walls - ground floor
- Drawing Internal Walls - ground floor
- Placing Doors - ground floor
- Placing Windows - ground floor
- Inserting Stairs (and different configurations)
- Adding the ground Floor Slab

DRAWING THE FIRST FLOOR

- Understanding levels
- Drawing External Walls by copying ground floor - to first floor
- Modifying first floor External Walls (different first floor to ground floor)
- Adding the Suspended Floor - to first floor
- Drawing the Internal Walls - to first floor
- Placing Doors - to first floor
- Placing Windows - to first floor

DRAWING THE ROOF

- Drawing and editing of the Lean-to Roof
- Drawing and editing of the Main Roof
- Exploration of alternative roof types

PROJECT COSTING AND MATERIALS TAKE-OFF USING ESTIMATORXPRESS - HOUSE CASE STUDY

- Export design to produce project costings
- Understand project costings and review and report
- Program of works development
- Materials take-off and scheduling

PROJECT CASE STUDY - APPLYING SKILLS TO AN EXTENSION

Take-off of extension in PlansXpress
Completing the estimate in EstimatorXpress

PROJECT CASE STUDY - APPLYING SKILLS TO A LOFT

Take-off of extension in PlansXpress
Completing the estimate in EstimatorXpress

PROFIT MARGINS & OVERHEADS

Why is profit important
The 4 Golden Rules of pricing for profit
How to properly calculate profit
Business overheads and how to calculate and allow for them
Charging the true value of the work you do

HOW TO QUOTE EFFECTIVELY

Selecting good clients and avoiding time wasters
Understand what your client is looking for
How detailed should your quote be?
PC Sums & how to deal with unspecified 2nd fix items

CONTRACTS, DEPOSITS & STAGE PAYMENTS

Why a contract is necessary, and what should be in it
Deposits - should you charge one, and how much?
How to schedule stage payments
How to deal with variations
How to close a job and get the final payment

HEALTH & SAFETY IN CONSTRUCTION - IDENTIFYING RISK WHEN ESTIMATING

Introduction to H&S in Construction
Understanding Construction (Design Management) regulations 2015
Understanding Duty Holders Responsibilities, notification, 3 key documents projects
Understanding the principle of Design Risk Management & RAG

PRESENTATION SKILLS

FINAL SUBMISSION OF PROJECTS

To register your interest in future courses, or to apply to this Skills Bootcamp please call **0117 916 7870** or email **application-enquiries@hbxl.co.uk**, providing your name and phone number.

