



CAD FOR CONSTRUCTION

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

GETTING STARTED WITH DIGITAL DESIGN USING PLANSXPRESS

- 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)
- 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

ADDING DETAIL TO YOUR PLANS

PRODUCING 3D MODELS

PROJECT CASE STUDY - APPLYING SKILLS TO AN EXTENSION

PROJECT CASE STUDY - APPLYING SKILLS TO A LOFT

ESTIMATE TAKE-OFF

PORTFOLIO DEVELOPMENT OF 4 PROJECTS - NEW BUILD / EXTENSION / LOFT / PERSONAL PROJECT

PRESENTATION SKILLS

FINAL SUBMISSION OF PROJECTS

