



# 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

## PROJECT COSTING & MATERIALS TAKE-OFFS

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

## PRESENTATION SKILLS

## FINAL SUBMISSION OF PROJECTS

