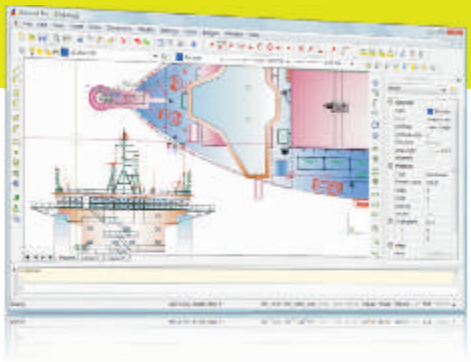
2D Combo course

Architectural Draughting & CAD Draughting in Bricscad

CORRESPONDENCE – DISTANCE LEARNING



Course Duration: 12 Months
Time: Self-Study on your own time

The Bricscad™ Correspondence course will enable students to create a basic 2D drawing. Even at this fundamental level, Bricscad™ is one of the most sophisticated computer applications that you are likely to encounter. Part 1 covers the indispensable core topics for working with Bricscad™. The teaching strategy is to start with a few basic tools that allow the student to create and edit a simple drawing. Part 2 continues with more sophisticated techniques that extend your mastery of the program.

LEARNING OUTCOMES OF THIS COURSE
- Understanding the Bricscad™ workspace and user interface
- Draft basic drawings, objects and layers
- Organising drawing objects on layers
- Inserting reusable symbols (blocks)
- Prepare layouts and plots
- Add text, hatching and dimensions
- Using more advanced editing and construction techniques
- Creating local and global blocks
- Set up layers, styles and templates
- Architectural draughting basics & principals

Prerequisites:
- A working knowledge of basic design/drafting procedures and terminology
- A working knowledge of Windows / Word Processor.

2D Combo course

Includes:
Bricscad™ Textbook - 2D Manual
Bricscad™ Workbook
Bricscad™ Study Schedule
Bricscad™ Interactive CD
Bricscad™ Academic Software CD
Architectural Draughting course
Drawing kit
A5 Notepad & Pen

NB: Certificate to be issued on completion of course.

Course Outline

Explain & Interpret Construction Drawings & Specifications
- Explain the role of drawings and specifications
- Quantities and construction
- Payment for contractors

Identify & Interpret Drawings & Symbols used on a Drawing
- The use of drawings on a construction job
- Scales of drawings

Building Drawings (plans)
- Different kinds of drawings
- Reading floor plans
- Specifications and notes
- Drawing symbols and abbreviations
- Revising and caring for drawings
- Application of drawings for setting out
- Summative assessment
- Topic summary

Basic Drawing Skills – Instruments
- Drawing equipment and instruments
- Drawing paper
- The use of drawing instruments
- Printing letters and figures
- Dimension and extension lines
- The design process
- Interpreting drawing briefs
- Interpreting building drawings
- Points to remember when interpreting a building plan

Basic Drawing Skills – Freehand
- Freehand drawing
- Interpreting freehand drawings
- Summative assessment
- Topic summary

Basic Systems of Measurement
- The metric system
- The “imperial” system, and converting to metric.

Measurement of Quantities
- Use the units of measurement and symbols in calculations
- Measuring quantities from drawings and from site
- Summative assessment
- Topic summary
- The “imperial” system and converting to metric

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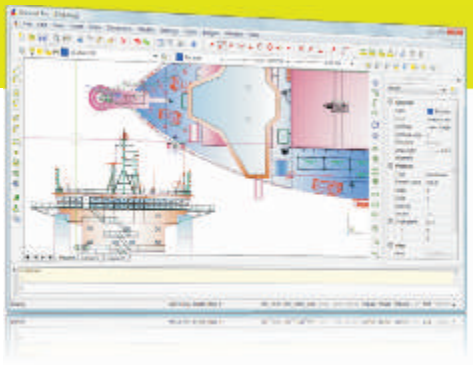

Course Outline

Levelling Measuring & Setting-out Instruments & Accessories
- The use and adjustment levelling, measuring and setting-out instruments
- Use various instruments correctly for measuring, setting-out
- Summative assessment
- Topic summary

Dumpy Level
- The use and adjustment of the dumpy level
- Use and application of a dumpy level
- Proper care of the dumpy level and tripod
- Summative assessment
- Topic summary

Introduction to Quantity Surveying Concepts
- Various kind of building contractors
- Terms in quantity surveying

Calculation of Quantities & Costs
- Calculating quantities based on drawings
- Calculating costs of material according to the building drawing and specifications
- Investigating prices for the materials
- Calculate costs of material as specified in the building plan
- Buying materials for a project
- Labour rates
- Summative assessment
- Topic summary

Introduction & Installation
- Using CAD Commands
- Compare Bricscad to manual draughting
- Drawing to scale
- Organizing Information
- Drawing efficiently
- Online Help
- Installation

Bricscad Interface
- Understanding the Interface
- Customising the interface

Drawing in Bricscad
- Absolute Rules
- Drawing a line
- Using the Zoom Commands
- Using the Object Snaps

Editing Methods
- Copy objects
- Move objects
- Fillets and Chamfers
- Trim and Extend
- Scale
- Stretching / Lengthening

Layers
- Organising Objects with Layers
- Creating Layers
- Linetype Scales

Dimensions
- Dimension Toolbar
- Linear dimensions
- Aligned dimensions
- Ordinate dimensions
- Radius dimensions
- Diameter dimensions
- Angular dimensions

Text & Hatching
- Creating Text
- Editing Text
- Creating Hatches
- Editing Hatches

Blocks
- Creating Blocks
- Creating and Placing Symbols
- Placing Blocks at measured Intervals
- Exploding Objects

Layouts & Plots
- Templates
- Plotting drawings
- Model and Layout/Paper Space
- Setting up viewports
- Setting up Titleblocks

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