

Architectural Draughting

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

In this course you will learn to produce accurate plans and drawings to scale. You will also learn how to apply this knowledge to your building construction work - using drawings to turn concepts into reality.

Learning Outcomes of this course:

When you complete this learning unit, you as a learner should be able to:

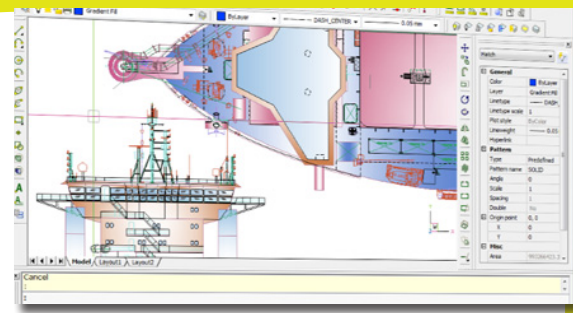
- Explain and interpret construction drawings and specifications.
- Identify and interpret drawings and symbols used on a drawing.
- Building drawings (plans).
- Basic drawing skills - Instruments.
- Basic Drawing skills - Freehand.
- Basic systems of measurements.
- Measurement of quantities.
- Levelling, measuring and setting out instruments and accessories.
- Dumpy level
- Introduction to quantity surveying concepts.
- Calculation of quantities and costs.

Prerequisites:

- Grade 11 (std 9) with technical drawing or N2 or NCVL3 **or**
- 12 months experience in drawing office **or**
- Intro to Draughting course.

Architectural draughting course
Drawing kit (if ordered)

NB: certificate to be issued on completion of course.



Course Outline:

Explain & Interpret Construction Drawings & Specifications

- Explain the role of drawing 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

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Architectural Draughting

Course Outline:

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

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

