

# Drawing: Complex 2D and 3D shapes

## Tec.Graphics

Statement Code no: 11

Student:

Class:

At Junior Certificate level the student can:

Use basic drawing instruments to demonstrate the skills of drawing and the knowledge of more complex 2D shapes and basic 3D shapes

Date Commenced: / /

Date Awarded: / /

### Learning Targets - This has been demonstrated by your ability to:

- |    |   |  |
|----|---|--|
| 1  | Copy to given dimensions, a drawing containing rectangles, squares and circles from printed materials                         | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2  | Recognise and understand the line types, centre line, hidden detail and construction lines                                    | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3  | Draw octagons and hexagons in a circle using compass, T square and set square only  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4  | Measure given angles using a protractor   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5  | Construct and explain a variety of acute and obtuse angles using set squares  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6  | Use drawing instruments to construct pictorial views of basic 3D shapes   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 7  | Draw triangles using ruler, compass and protractor  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8  | Draw octagon, hexagon, and pentagon of given dimension using ruler, compass and protractor                                    | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9  | Construct basic geometrical 3D shapes (e.g. cube, rectangular prism and cylinder) to given measurements in oblique projection | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 10 | Construct basic 3D geometrical shapes (e.g. cube, rectangular prism) to given measurements in isometric projection            | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 11 | Draw a cube using a 2 point perspective drawing   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 12 | Enhance 3D images through the use of colour and shade   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Refer also to: All subjects except Physical Education

Work begun    | Work in progress    | Work completed