

## 0.6.41.4 Engineering Graphics

The theoretical side: the importance of engineering drawing and design, drawing tools, the line engineering. The practical side: the line engineering, engineering operations include: Graphic perpendicular line which divide straight line into two equal parts, divide the angle into two equal parts, divided straight line into equal parts, draw a pentagon in a circle, draw a hexagon if the diagonal is known, draw a hexagon if one of his side known, draw a hexagon inside the circle its radius is known, draw a hexagon outside the circle its radius known, draw an octagon outside the circle its radius known, draw an arc with known radius that tangent to a straight line and another arc, draw an arc with known radius that tangent to a straight line in specific point and passes through specific point, draw an arc with known radius that passes through specific point and tangent to another arc, draw an arc with known radius that tangent to two intersecting straight lines, draw an arc with known radius that tangent to other two arcs from the outside, draw an arc with known radius that tangent to two other arcs from inside, draw an arc with known radius that tangent to another arc from inside and tangent to another arc from outside, draw ellipse shape, the theory of projection, the multiple projections system, exercises in projections in the first angle projection drawing, cut projections (projections full cut, projections half cut), practical exercises in cut and half cut projections, theory of isometric drawing, applications in the isometric drawing. Auto cad, introduction, explanation of layers, explanation of draw list and modify list, explanation of different examples of drawings, explanation of dimension list and format list, how to print autocad file and explanation of different technics connected with AutoCAD.