



An ISO 9001 - 2008
Organization



TWG GROUP

THE WORD OF GOD

INTERNATIONAL STANDARD

ISO/IEC-17025:2005 NABL ACCREDITED FOR NDT

(Dept. of Science and Technology, Government of India)



Accreditation Certificate No: T - 2387
Metal Lab



सत्यमेव जयते
Government of India

AUTOCADD

DAY 1

1. Need for Designing
2. Introduction to CAD/CAM/CAE
3. Concept of Designing and Drafting
4. Angle of Projection
 - 4.1 First angle projection
 - 4.2 Third angle projection
5. Orthographic and Isometric View
6. Quadrants
7. Introduction to AutoCAD
8. Introduction to Autodesk
9. Product design life cycle

DAY 2

1. Function keys
2. Units
3. Limits
4. Line
 - 4.1 Close
 - 4.2 Undo
5. Selection
 - 5.1 Cross selection
 - 5.2 Window selection
6. Ray-line
7. Xline
 - 7.1 Horizontal
 - 7.2 Vertical
 - 7.3 Angle
 - 7.4 Bisect
 - 7.5 Offset
8. Polyline
 - 8.1 Arc
 - 8.2 Halfwidth
 - 8.3 Length
 - 8.4 Undo
 - 8.5 Width

DAY 3

1. Polygon
 - 1.1 Inscribed
 - 1.2 Circumscribed
 - 1.3 Edge
2. Properties
3. Match properties
 - 3.1 Object
 - 3.2 Settings
4. Erase
5. Copy
 - 5.1 Displacement
 - 5.2 Mode

DAY 4

1. Rectangle
 - 1.1 Chamfer
 - 1.2 Fillet
 - 1.3 Elevation
 - 1.4 Thickness
 - 1.5 Width
2. Move
 - 2.1 Base point
 - 2.2 Displacement
3. Chamfer
 - 3.1 Undo
 - 3.2 Polyline
 - 3.3 Distance

- 3.4 Angle
- 3.5 Trim
- 3.6 Method
- 3.7 Multiple
4. Fillet
 - 4.1 Undo
 - 4.2 Polyline
 - 4.3 Radius
 - 4.4 Trim
 - 4.5 Multiple
5. Offset
 - 5.1 Through
 - 5.2 Erase

DAY 5

1. Arc
 - 1.1 points
 - 1.2 Start,center,End
 - 1.3 Start,center,angle
 - 1.4 Start,centre,length
 - 1.5 Start,end,angle
 - 1.6 Start,end,direction
 - 1.7 Start,end,radius
 - 1.8 Centre,start,end
 - 1.9 Center,start,angle
 - 1.10 Center, start, length
 - 1.11 Continue
2. Circle
 - 2.1 Center,radius
 - 2.2 Center, diameter
 - 2.3 2 point
 - 2.4 3 points
 - 2.5 Tangent, tangent, radius
 - 2.6 Tangent,tangent,tangen
3. Array

3.1 Rectangular Array

- 3.1.1 Associative
- 3.1.2 Base point
- 3.1.3 Count
- 3.1.4 Spacing
- 3.1.5 Columns
- 3.1.6 Rows
- 3.1.7 Levels
- 3.1.8 Exit

3.2 Polar array

- 3.2.1 Associative
- 3.2.2 Base point
- 3.2.3 Items
- 3.2.4 Angle between
- 3.2.5 Fill
- 3.2.6 Rows
- 3.2.7 Levels
- 3.2.8 Rotate
- 3.2.9 Exit

3.3 Path array

- 3.3.1 Associative
- 3.3.2 Base point
- 3.3.3 Items
- 3.3.4 Levels
- 3.3.5 Method
- 3.3.6 tangent direction
- 3.3.7 rows
- 3.3.8 align items
- 3.3.9 exit

3.4 Array edit

- 3.4.1 source
- 3.4.2 replace
- 3.4.3 method
- 3.4.4 base point
- 3.4.5 items
- 3.4.6 rows
- 3.4.7 Levels
- 3.4.8 z-direction
- 3.4.9 reset
- 3.4.10 exit

DAY 6

1. Mirror
2. Rotate
 - 2.1 Copy
 - 2.2 Reference
3. Scale
 - 3.1 Copy
 - 3.2 Reference
4. Donut
5. Fill
6. Multiline
 - 6.1 Justification
 - 6.2 Scale
 - 6.3 Style
 - 6.4 Top
 - 6.5 Zero
 - 6.6 Bottom
7. Multiline style
8. Multiline edit
 - 8.1 Cross intersection
 - 8.2 Closed cross
 - 8.3 Open cross
 - 8.4 Merged cross
 - 8.5 Tee intersection
 - 8.6 Closed tee
 - 8.7 Open tee
 - 8.8 Merged tee
 - 8.9 Corner joint
 - 8.9 Adding vertices and deleting vertices
 - 8.10 Cutting and welding multiple
 - 8.11 Cut single
 - 8.12 Cut all
 - 8.13 Weld all

DAY 7

1. Spline
 - 1.1 Methods
 - 1.2 Knots
 - 1.3 Object
2. Ellipse
 - 2.1 Axis end point
 - 2.2 Center point
 - 2.3 Rotation angle
3. Arc
 - 3.1 Start and end angles of the arc
 - 3.2 Start and include angles of the arc
 - 3.3 Start and end parameters

4. Stretch
5. Lengthen
 - 5.1 Delta
 - 5.2 Percent
 - 5.3 Total
 - 5.4 Dynamic

DAY 8

1. Block
 - 1.1 Base point
 - 1.2 Object
 - 1.3 Behaviour
2. Insert block
 - 2.1 Intersection point
 - 2.2 Scale
 - 2.3 Rotation
3. Write block
 - 3.1 Base point
 - 3.2 Object
4. Trim
 - 4.1 Fence
 - 4.2 Crossing
 - 4.3 Project
 - 4.4 Edge
 - 4.5 Erase
 - 4.6 Undo
5. Extend
 - 5.1 Fence
 - 5.2 Crossing
 - 5.3 Project
 - 5.4 Edge
 - 5.5 Undo

DAY 9

1. Dimensioning concepts
2. Need for dimensioning
3. Fundamental dimensioning terms
4. Dimension line
 - 4.1 Dimension text
 - 4.2 Arrowheads
 - 4.3 Extension lines
 - 4.4 Leader
 - 4.5 Center mark and center lines
 - 4.6 Alternate units
 - 4.7 Tolerances
 - 4.8 Limits
 - 4.9 Quick dimension
 - 4.10 Continuous
 - 4.11 Staggered
 - 4.12 Baseline
 - 4.13 Ordinate
 - 4.14 Radius
 - 4.15 Datum point
 - 4.18 Edit
 - 4.19 Settings
5. Linear dimension
 - 5.1 MText
 - 5.2 Text
 - 5.3 Angle
 - 5.4 Horizontal
 - 5.5 Vertical
 - 5.6 Rotated
6. Aligned dimension
 - 6.1 MText
 - 6.2 Text
 - 6.3 Angle