

AutoCAD 3D Drawing Practice

SUBJECT	TEACHER	LEVEL	DATE
AutoCAD	KR	3D	June 10, 2018

OVERVIEW

Exercise for students to attempt as part of flipped classroom or lifelong learning and self-development.

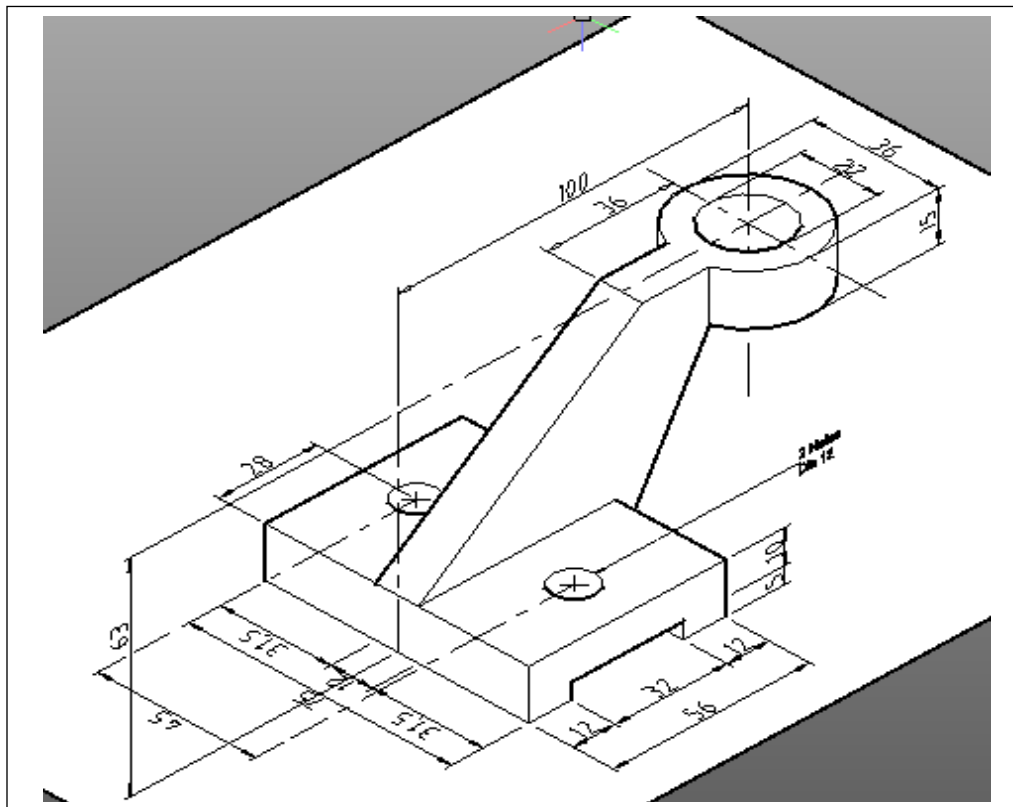
Reproduce drawing given as per objectives and student guide.

TEACHER GUIDE		STUDENT GUIDE
OBJECTIVES	Ability to set a 3D dwg environment. Ability to set linetype, lineweight, point style. Ability to create layers and customize Ability use draw tools: Line, rectangle, circle Ability to use modify tools: Erase, trim, offset, copy, move, join. Ability to use 3D modeling tools to draw: Box, extrude, Presspull. Ability to modify the UCS location and set as needed. Ability to use Boolean operation: Union, subtract, intersect. Ability to use 3D operations such as: 3D move, 3D rotate, 3D align, 3D mirror. Possess knowledge of floating viewports for 3D view. Perform Solid editing function such as : fillet edges, copy edges, clean. Ability to navigate and use the Navigational Cube and navigational Bar. Set the environment for a render and render.	Set limits, units, draw border, activate a 3D modelling ribbon. Set linetype, lineweight, point style Create appropriate layers and set properties. Use draw tools to replicate the dwg given. Use the modify tools as and when required. Draw the object using box, or rectangle and extrude/presspull. Use new UCS to orient the UCS as needed. Union primitives, subtract and intersect as needed. Use 3D move, 3D rotate and 3D align as needed. Create floating viewports for 3D view and for those with no prior knowledge in layout display: skip this step. Use these functions to work on edges and place references and construction lines in drawing. Use the navbar and navcube to rotate and view object as needed. Shift to Visualize tab in ribbon menu. Assign a material to the object and set the render environment then render according to resources and time available. Those who do not know how to render, skip this step.
ACTIVITY	Correct and discuss upon difficulties of met. Discuss on the strategy adopted and discuss on methodology and provide alternatives and short cut methods that can be adopted.	Complete the exercise in 1 hour maximum and print on an A4 sheet with the following parameters: A4 size paper, fit to paper, center the plot, landscape, grayscale, plot to limits.
SUMMARY	Summarize the different strategies adopted to emphasize on speed, precision and good drawing management.	Copy the different strategies adopted and reproduce for practice.

REQUIREMENTS

Student should have completed the AutoCAD Level 1 course (Beginner or Essential Level) and have a basic knowledge in 3D.

DRAWING TO REPRODUCE



DRAWING IN AUTOCAD/RENDER

