Structural Isometric Drawing

Student | Task 1 workspace | A4

Task 1

Task 1 — Axis layout. Draw the origin and the three isometric axes, labelling which is vertical and which two are ground axes.

Draw the origin and all three directed axes in this open area.

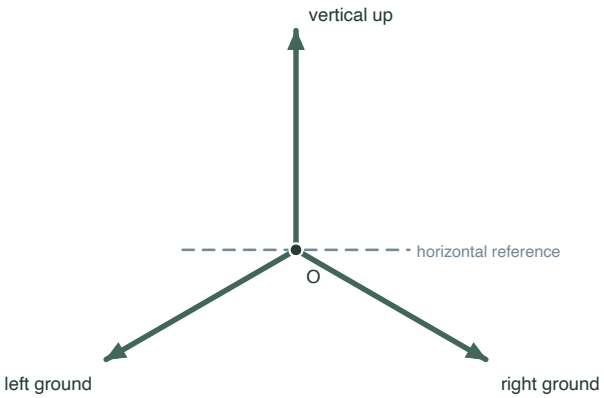
Structural Isometric Drawing

Student I Task 2 workspace I A4

Task 2

Task 2 — Column placement. On your Task 1 axes, mark four column plan positions by stepping along the two ground axes, then raise a vertical line at each.

The axes are supplied as a scaffold; mark four plan corners and raise four columns.



Structural Isometric Drawing

Student I Task 3 workspace I A4

Task 3

Task 3 — Beam and joint construction. Join the four column tops with beams along the ground-axis directions and mark each joint.

Starter: four columns only. Add beams and joint dots in the open plate.



Structural Isometric Drawing

Student | Task 4 workspace | A4

Task 4

Task 4 — Visual check. Review your completed plate against the three checks and correct any member that fails.

Use your Task 3 plate. Re-trace each part and note any correction below.

Vertical members	Are all columns vertical?
Beam directions	Does each beam follow a ground-axis direction?
Joints	Does each joint dot mark a real beam-column meeting?