# Exercise duration: ~15 minutes

# Practice exercise

# Create a mezzanine level model

Complete the volume 3 atrium model by creating the mezzanine elements. In this exercise, you will introduce new levels to an existing project, then create and place architectural components including walls, windows, ceilings, and floors. This task will develop your ability to modify a shared model and work within a multi-level design context.

Learning objectives:

* Read and extract information from a BIM Execution Plan.
* Create a project level adhering to project and ISO standards.
* Create walls, windows, doors and floors.
* Save a Revit project, adhering to project and ISO naming standards.

A drawing of a building

AI-generated content may be incorrect.­

The completed exercise

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| 1. In Revit, open the provided dataset file, ***M2\_Atrium.rvt*** *file* | Figure 1. Downloaded dataset files. |
| 1. Open the supplied **BIM Execution Plan.pdf** (BEP)file from the dataset. | Figure 2. BIM Execution Plan. |
| 1. Using an elevation view, create a new level at height 3000mm   This will be a new mezzanine level, see the BEP for naming standards. It should be named to meet the project requirements. | Figure 3. Project naming standards. |
| 1. Create a new floor plan view for the new level if it doesn’t already exist. | *Figure 4. Floor plan view dialog*. |
| 1. Create the three mezzanine walls.   Type: Wall\_Interior\_Generic  Location line: Wall centerline  Base constraint: Mezzanine level  Height : 3000mm  Note: Use grids 6 dimensioned to the vertical wall center 6000mm  Use grids D and F to position wall center for horizontal walls. | Figure 5. Mezzanine walls. |
| 1. Add windows to the mezzanine level.   Type: Mezzanine window | Figure 6. Mezzanine windows. |
| 1. Sketch a floor for the level, aligning the floor boundary to the outside face of the mezzanine walls.   Type: Generic | Figure 7. Floor. |
| 1. Sketch a ceiling for the level, aligning the boundary to the interior face of the mezzanine walls.   Type: Generic  Height: 3000mm | Figure 8. Ceiling. |
| 1. Name the Revit project so that it meets the naming standard as per the BEP.   *Project information needed to name the file:*  You work for the Architecture Company.  This is volume 3 of the school building.  This is the native Revit project file containing architectural model elements and all of the levels for this volume. | A screenshot of a computer  AI-generated content may be incorrect.  Figure 9. Save As > Project. |
| 1. Click to close any open tabs to close the Revit project. | *Figure 10. Close any open Revit projects.* |