

Course challenge exercise

Perform a model review, run an interference check, and assign issues

This challenge tests your skills in both Revit and Autodesk Construction Cloud. Your goal is to review a Revit model for warnings, check linked models, identify a basic coordination clash, upload a model to Autodesk Construction Cloud, and assign an issue for resolution.

In part one of this challenge, you will open a Revit model file and perform a basic health check by reviewing basic model issues and running a simple clash check. For the second part, you will publish the model to an Autodesk Construction Cloud (ACC) project, set up some users, and assign responsibility for fixing the issues you found in part one.

This challenge uses the Autodesk Revit Architectural Sample model which comes as part of the standard software install: **Snowdon Towers Sample Architectural.rvt**. It has been provided in course downloads for your convenience.

Complete the required activities:

1. Review any model warnings
 - Open **Snowdon Towers Sample Architectural.rvt**.
 - Go to Manage → Review Warnings.
 - Review the list of warnings and prioritize.
 - Identify one warning that could represent a potentially serious issue.
2. Manage links
 - Go to Manage → Manage Links, Review any linked models.
 - Confirm that: Links are loaded correctly. The link paths are appropriate for an upload to ACC.
3. Perform a clash detection
 - Go to Collaborate → Interference Check → Run Interference Check.
 - Set up the check:
 - Category 1: Doors & Windows - Category 2: Structural Framing
 - Run the check.
 - Identify important clashes.
4. Create a project in Autodesk Construction Cloud
 - Log in to Autodesk Construction Cloud.
 - Create a new project:

- Project name: Snowdon Towers
- 5. Create users and assign permissions
 - Add at least two users (for example, Architect and Structural Engineer).
 - Assign appropriate permissions to each user.
- 6. Upload the model and assign a fix
 - Upload **Snowdon Towers Sample Architectural.rvt** to Docs.
 - Create one issue based on the warning found.
 - Create one issue based on the clash found.
 - Assign the issues to the appropriate user.
 - Set a priority and due date.

Success Criteria:

- **Clash detection:** Important clashes are identified
- **Project and users assigned:** A new project is created. Users are created and assigned permissions.
- **Model contains assigned issues:** The model is uploaded with two issues identified and assigned to appropriate users.

What to Submit:

- **Revit model file (.RVT)** – Upload the Snowdon Towers Sample Architectural.rvt file to Autodesk Docs. Your instructor should have access to your project if you invite them to the project.

Grading Rubric

- **Clash detection:** Important clashes are identified. 30%
- **Project and users assigned:** A new project is created. Users are created and assigned permissions. 30%
- **Model contains assigned issues:** The model is uploaded with two issues identified and assigned to appropriate users. 40%