

Course challenge exercise

Manage plumbing drawings and workflows in Build

Using Build, manage and coordinate the MEP phase of the project using the provided plumbing sheets. Your goal is to organize project documents, track and resolve coordination issues, process RFIs and submittals, document meetings, and generate reports that demonstrate accountability and clear project communication.

Complete the required activities:

- From the **Course Downloads**, upload the provided plumbing sheets into Autodesk Build. Organize them into a Plumbing drawing set and verify that sheet numbers, titles, and revisions are correct. Generate a pdf report showing the current set of documents.
- Create one submittal with the plumbing product data provided. Export/generate and submit this pdf document.
- Create 2 RFIs with the information provided below in plumbing question #1, and #2. Generate and submit these 2 RFIs as PDFs.
 - Plumbing Question #1 – Missing Dimension
Condition:
On Sheet P102, the domestic cold water line is shown serving a wall-mounted lavatory in the restrooms. The plan indicates the pipe routing but does not provide a horizontal dimension from the adjacent wall to the centerline of the pipe stub-out.
 - Plumbing Question #2 – Shower Drain Location and Dimensions
Condition:
On Sheet P102, shower drains are shown in each restroom. The drain symbol is identified, but the drawing does not provide horizontal dimensions locating the drain from adjacent finished walls. The vertical elevation of the drain connection is also not specified.
- Create the following punch list items on the following sheets and locations:
 - P200, at gridlines E and 9 – item: horizontal and vertical lines not complete, need to complete.
 - P202, at gridlines E and 5 – item: riser is stubbed out of wall, need to adjust location.
- Generate a PDF report for the punch list items and submit.

- Create a meeting agenda highlighting the following items:
 - Current Drawings “heading”. Add one meeting item mentioning how many sheets were received and when they were distributed to the project team.
 - Submittals “heading”. Add an item mentioning the submittal sent, and when an expected responses date is needed.
 - RFIs “heading”. Add an item discussing the 2 RFIs, and when an expected response date is needed.
 - Punchlist “heading”. Add an item discussing the 2 items, and when the subcontractor will complete these items.

Success Criteria:

- **Accurate document control:** Plumbing drawings are uploaded and organized into a plumbing set. The generated drawings report accurately reflects the current document set, titles, and sheet numbers.
- **Proper workflow execution:** Submittals, RFIs, punch list items, and meeting agenda items are created correctly in Build using the information provided.
- **Clear and accurate descriptions:** RFIs, submittals, and punch list items include appropriate descriptions, responsible parties, and expected response or completion dates.
- **Professional documentation:** All generated PDF reports are clear, complete, and formatted in a manner suitable for sharing with a project team.

What to Submit:

- **Drawings report** – Generate and submit a PDF report showing the current Plumbing drawing set.
- **Submittal PDF** – Export and submit the plumbing submittal document.
- **Two RFI PDFs** – Export and submit both RFIs (Plumbing Question #1 and #2).
- **Punch list report** – Generate and submit a PDF report showing the two punch list items.
- **Meeting agenda PDF** – Export and submit the meeting agenda showing all required discussion items.

Grading Rubric

	Advanced	Proficient	Basic	Emerging
Document Control	Plumbing drawings fully organized, correctly titled, and revisions verified; report is accurate and complete	Minor organizational or labeling issues	Drawings uploaded but inconsistently organized	Drawings incomplete, unorganized, or missing
Submittal and RFI documentation	Submittal and both RFIs clearly written, properly routed, and professionally documented	Minor clarity or workflow errors	Incomplete descriptions or routing issues	Missing or incorrectly created documents
Punch List management	Punch list items correctly located, clearly described, and properly assigned	Minor detail or formatting issues	Items created but lacking clarity or proper assignment	Missing or incorrectly documented items
Meeting and agenda coordination	Agenda clearly addresses drawings, submittals, RFIs, and punch list with expected dates.	Most required items included with minor omissions	Some required items missing or unclear	Agenda incomplete or missing major elements