

WM 240 – Cyber Context of Software Engineering

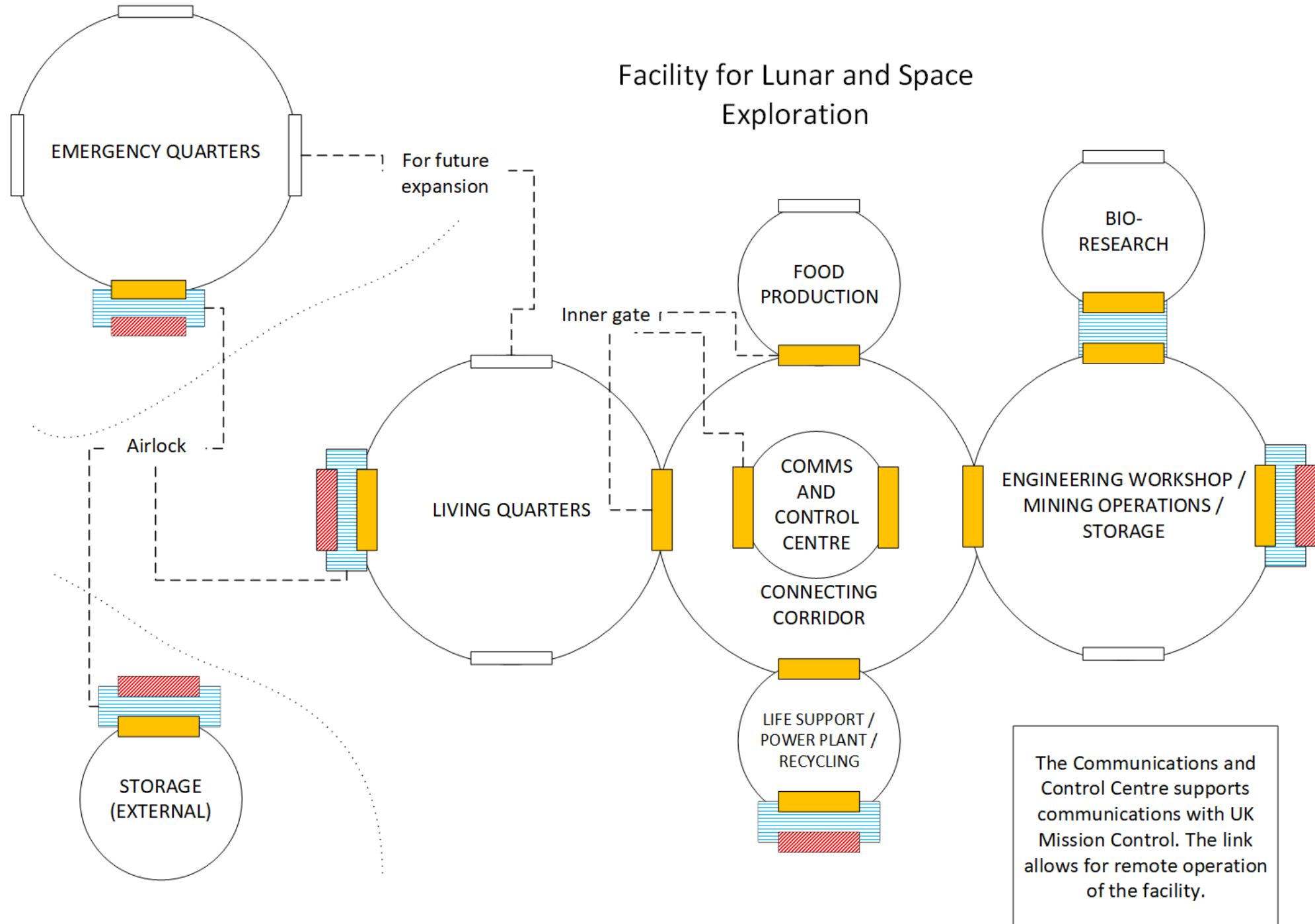
Assessment Briefing

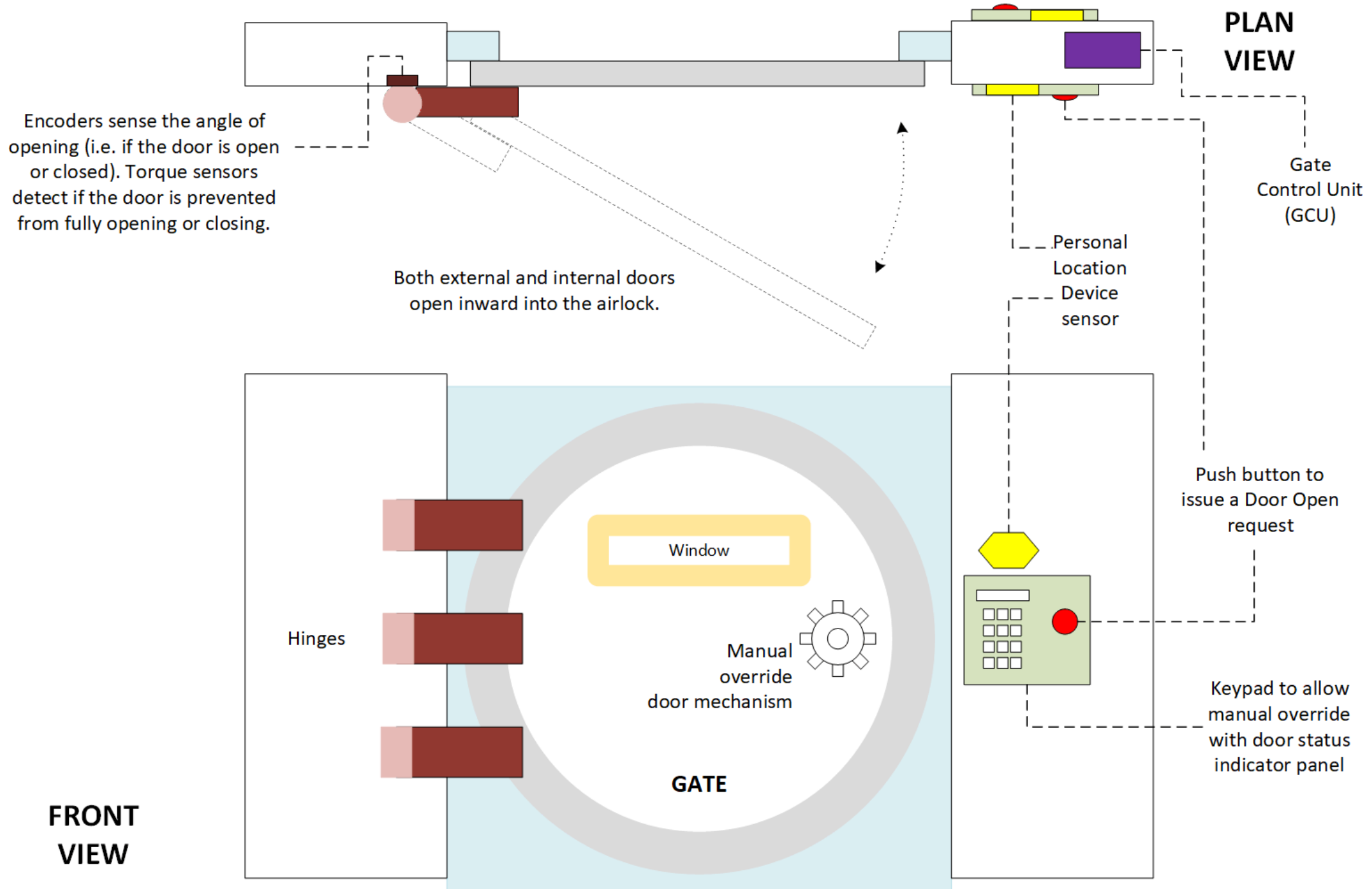


Scenario Background

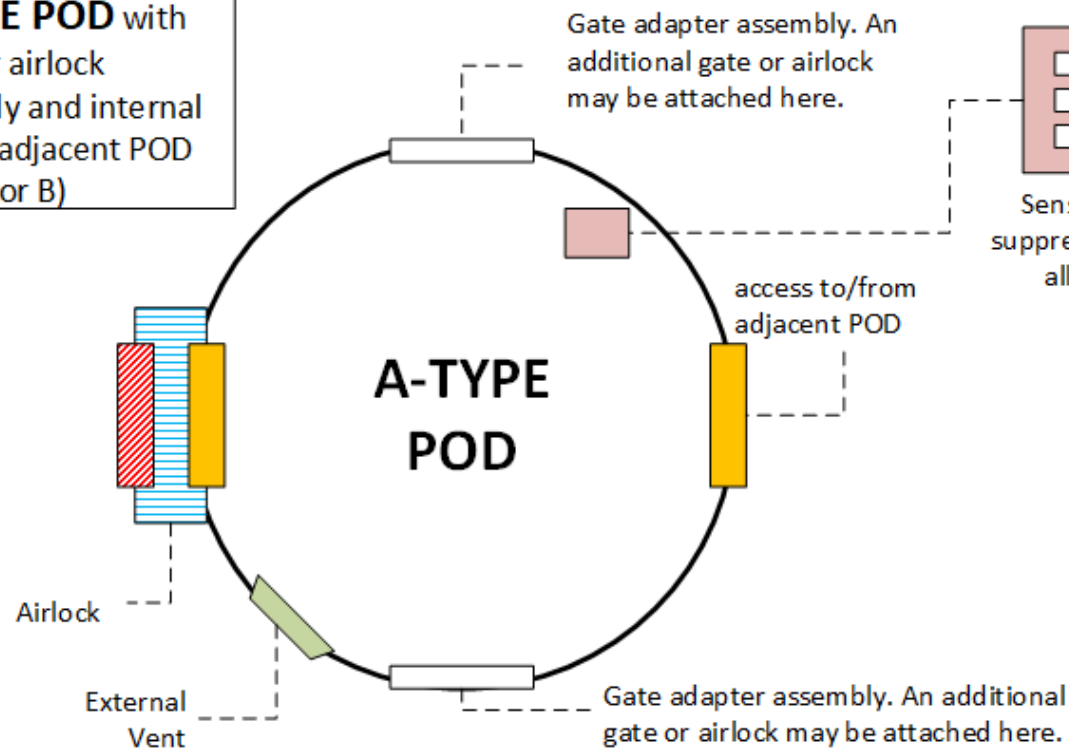
- You are going to develop a simulator (in software) for a safety critical system that will be implemented in a particularly extreme environment.
- Your simulator will demonstrate the safety aspects of a software design but remember - you are NOT implementing the final system.

Facility for Lunar and Space Exploration

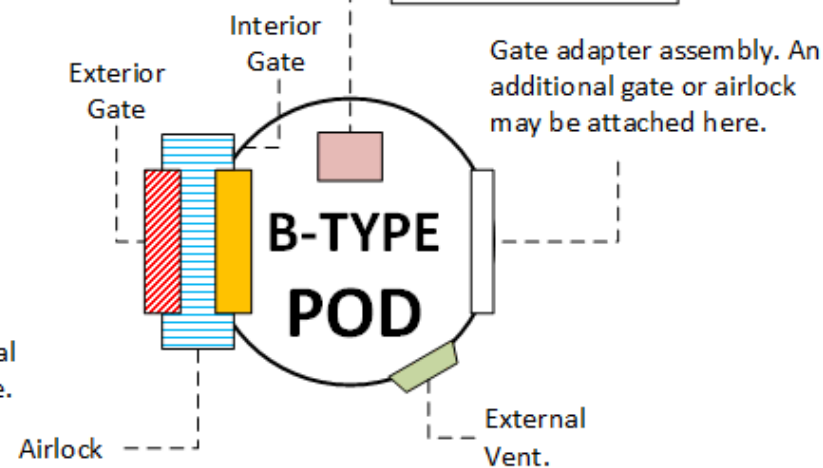




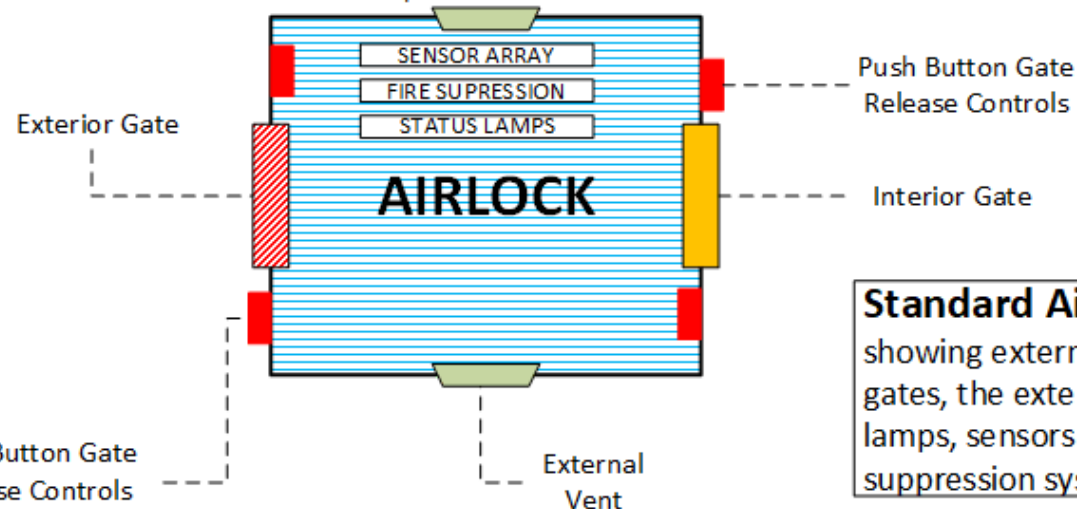
A-TYPE POD with exterior airlock assembly and internal gate to adjacent POD (type A or B)



B-TYPE POD with exterior airlock assembly and a single airlock.

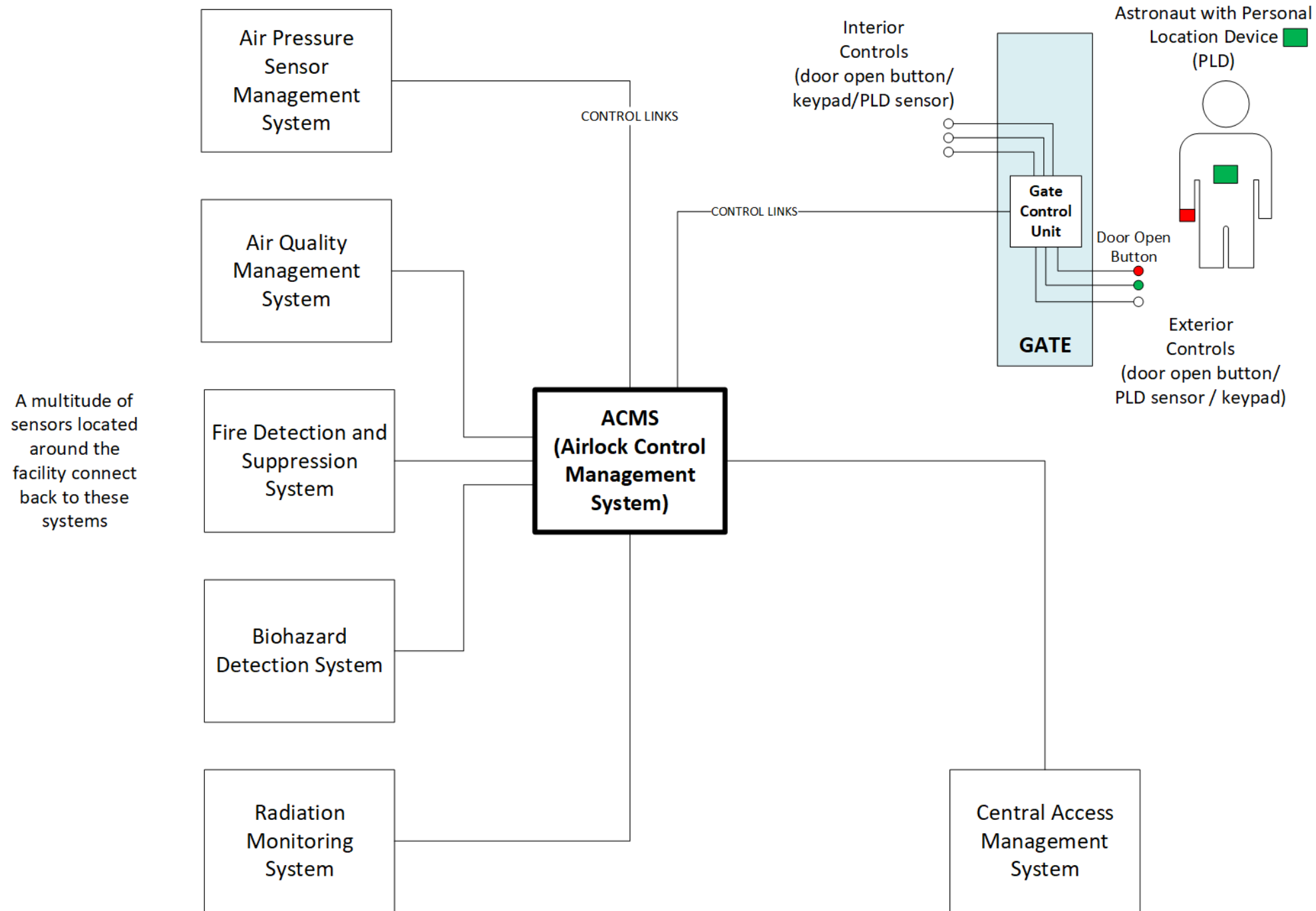


Extractor Vent. This is used to reclaim the atmosphere in the airlock



Standard Airlock showing external and internal gates, the external vent, warning lamps, sensors and fire suppression system.

External Vents.
These are used to purge the space in order to removal harmful gases, biohazards, fire suppression gases etc.



Immediate Actions

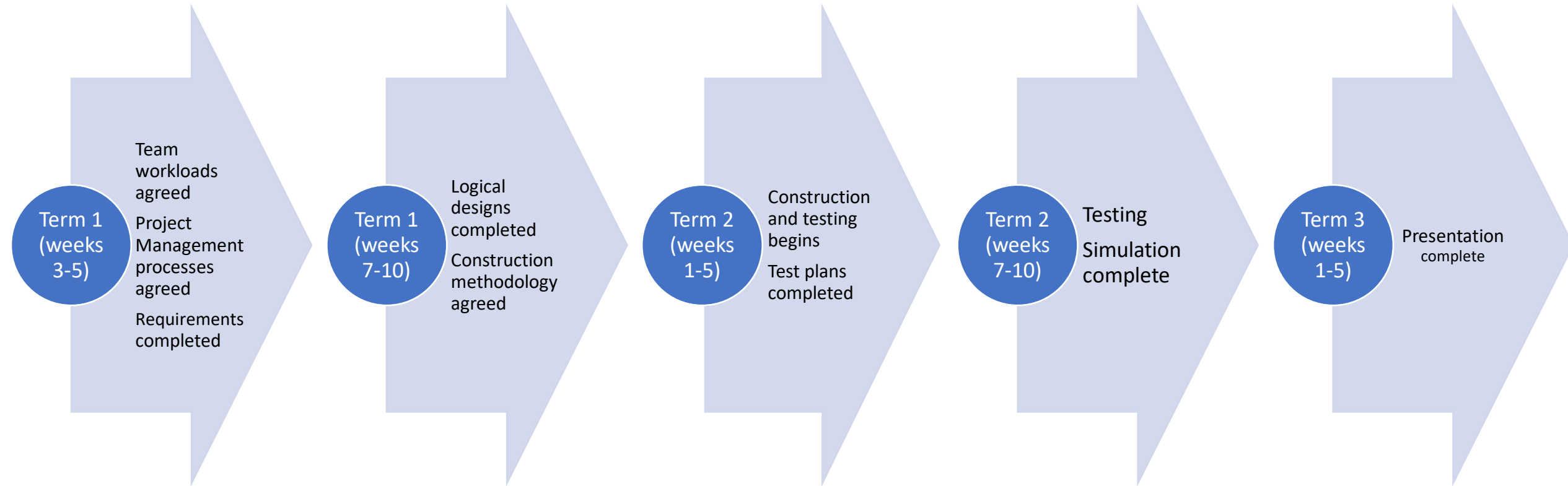
- Carefully read the assessment
 - It is the responsibility of each team member must understanding the goals of the assessment.
 - Do you understand how your individual piece of work will be assessed?
- Before the first assessment
 - Arrange the first meeting with your group
 - Does the group understand what it has to do to complete the assessment?
 - Does the group understand how its work will be assessed?
 - Has the group discussed how roles/responsibilities are to be allocated?
 - Has the group agreed on how to share and record information?

Project Roles and Responsibilities

- Project Manager - records key decisions / creates regular progress reports / team coordination / removing obstacles
- Requirements Engineer - ensuring functional and non-functional requirements are recorded, prioritised and managed
- Solution Architect - deconstructing the problem into manageable components / creation of a technical blueprint for developers
- Lead Developer - repository management / building the solution from submitted code
- Developer - creating code modules
- Test Engineer - developing the test plan / building test scripts
- DevOps - facilitating technical elements of project activities
- Presentation Lead

Roles/Responsibilities
need to be shared!

Planning - Key Dates



Friday Tutorial Sessions

- A lot of your work will be done in these sessions under the guidance of the tutor - **MAKE SURE YOU ATTEND THESE SESSIONS!**
- Prepare a brief presentation for your tutor that outlines how your team will go about tackling the problem.

Remember!

- Respect for your colleagues at all times!
- It's not about delivering the most technical solution - its all about meeting the objectives and how you deal with the problems as a team.