

Design, Engineer, Construct! Level 2:

Unit 4. Evaluating a Sustainable Construction Project

4.2. The candidate will transfer project evaluation to other contexts.



Unit	Incomplete (U)	Secure (C)	Exceptional (A)	Comments:
3.2.1				
3.2.2				
3.2.3				
3.2.4				

Name: Jack Littlewood

Date:

Deadline for Submission:








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4.2.1 identify issues in existing familiar buildings



1. Explore our school building and identify at least 5 issues with the school building. Discuss the issues and suggest possible solutions:

Issue	Image/ Photograph	Discuss the issue:
1		<p>An issue with this is that it's a small car park (even though there's one located at the rear of the school) but that means not much parking can occur here, also there's a one way road where the barrier is meaning congestion could occur, to fix this we could extend the car park and make it a two way road system.</p>
2		<p>One potential issue with this photograph is that there's only one elevator in the main building and one minor one in the extension meaning that people with disabilities would have to travel far to reach this. To correct this issue we could insert more elevators.</p>
3		<p>A potential issue with this photograph even though its aimed to be positive is that it can encourage graffiti on the sign.</p>
4		<p>1200 schoolchildren arrive at St Ambrose in the morning meaning that walkways can get congested, also pupils could walk on the grass causing erosion to occur damaging the environment.</p>
5		<p>People can get confused looking at the guide lined maps around the building as they can be confusing and don't tell you where you're located.</p>



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4.2.2 make recommendations to improve existing buildings

1. Explore our school building and identify at least 5 issues with the school building:

Issue	Image/ Photograph	Suggest some possible solution:	What barriers/ problems might you encounter when fixing the issue?
1		Daily or weekly inspection of the grass can help improve the rate of grass erosion and or place barriers next to scenery so it cannot be damaged.	Expect congestion in areas and also noise for the surrounding neighbourhood, it'll also cost money.
2		Daily or weekly elevator inspection because as we know the lift has broken down on several occasions. Built more elevators is also a possible solution but it costs a lot of money.	Congestion problems near the elevator and people who are required to use the elevator won't be able causing problems.
3		Again erosion is a key issue here and we can reduce or even stop it by placing barriers to encourage people not to walk on the grass.	Congestion problems from the construction of the barriers.
4		Small car park and small roads mean people and emergency services have a hard time operating here, we can build more roads for a smoother traffic flow and build a larger car park. Or extend it.	Be noise pollution from the construction of the new roads and car park and staff wouldn't be able to use it while they construct.
5		Crowding can be an issue in the reception area and we can help reduce this by extending corridors during holidays and introducing a new one way system.	This can cost a little money and people may not follow the new system put in place.





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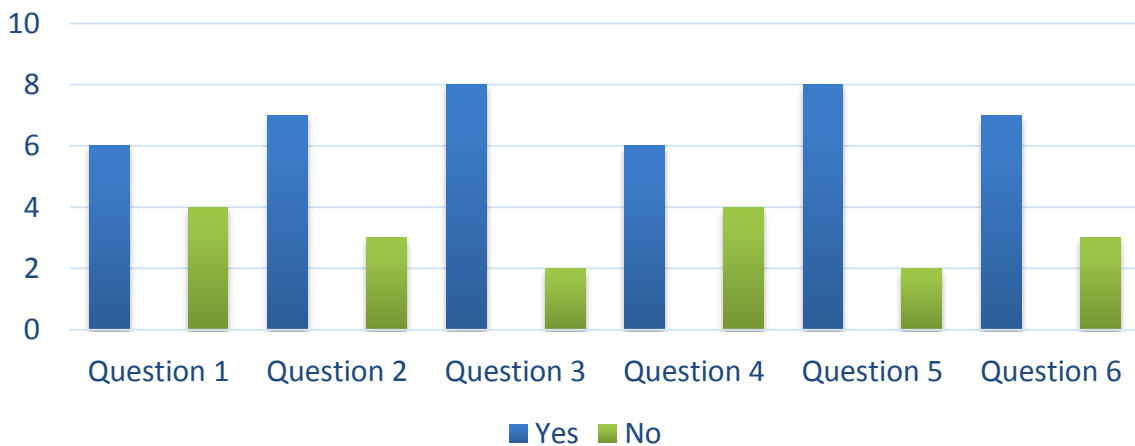
4.2.3 carry out a qualitative audit reporting on aesthetics and sensory experiences of users

1. Draw up a questionnaire for potential users of the building based on an inspection of the building and identification of issues related to aesthetics and sensory impact. Ensure the questionnaire is free from bias and targeted on getting valid and targeted responses from the users. The question should be completed by 10 users and the results should be collated and summarised:

- Q1. Are there sufficient amount of windows located around the building?
- Q2. Is the scenery outside the building to your expectations?
- Q3. Does any of my building affect the scenery that once used to be here?
- Q4. Does my building contain scenery sufficient to you?
- Q5. From a façade point of view does my building look aesthetically good?
- Q6. Have I used a good proportion of natural lighting throughout the building?

2 Add graphs/ charts to show results here. Write a sentence with each to summarise your findings

Questionnaire



From my results based on this questionnaire I am quite happy but a little concerned with the feedback as 60% of people only agreed to sufficient scenery in my building which worries me but with the help of these results I can help change that.



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4.2.4 present the building project to a professional audience

1. Final Evaluation of Project based on presentation feedback:

Focus	Feedback:
Facade/ style:	Façade is related to Project First Street's building facades which you have done quite well to recreate it. I also like the amount of glass used to help improve natural lighting throughout the building but we feel that the roof should be improved and have a more interesting design rather than a slope.
Function/ Performance	Overall we say the function is average as they're some good money saving tactics used around the building such as natural lights etc. and also solar panels which you have explained will be added , but we fell that a wind turbine or improved SUD's should be improved as Manchester is quite wet and humid.
Accessibility	We are pleased with the accessibility of the building in key areas but feel that special features could be improved, overall we love the ramps and lifts used throughout the building making it accessible to all.
Sustainability (3P's)	This building benefits people as they can use the facilities for leisure which is good but we feel there can be more, this also benefits the planet as you help reduce energy costs meaning less fuels will be used to operate your building and it also is profitable as it's in central Manchester meaning many people will use the facility and your building can last for a long time, well done!
Overall:	Overall we are satisfied with the building so far, we understand the top level is incomplete but that just opens up the question for more activities in the building. It benefits the user and staff and it has good sustainable features and a okay design we are happy about.

