

ENGINEERING FOR PEOPLE DESIGN CHALLENGE: MARKING CRITERIA



Throughout the design process, you will be assessed on:

1 YOUR APPRECIATION OF THE CONTEXT

This relates to how well you have responded to the brief. Has your design been informed by the social, environmental and economic aspects of the context?

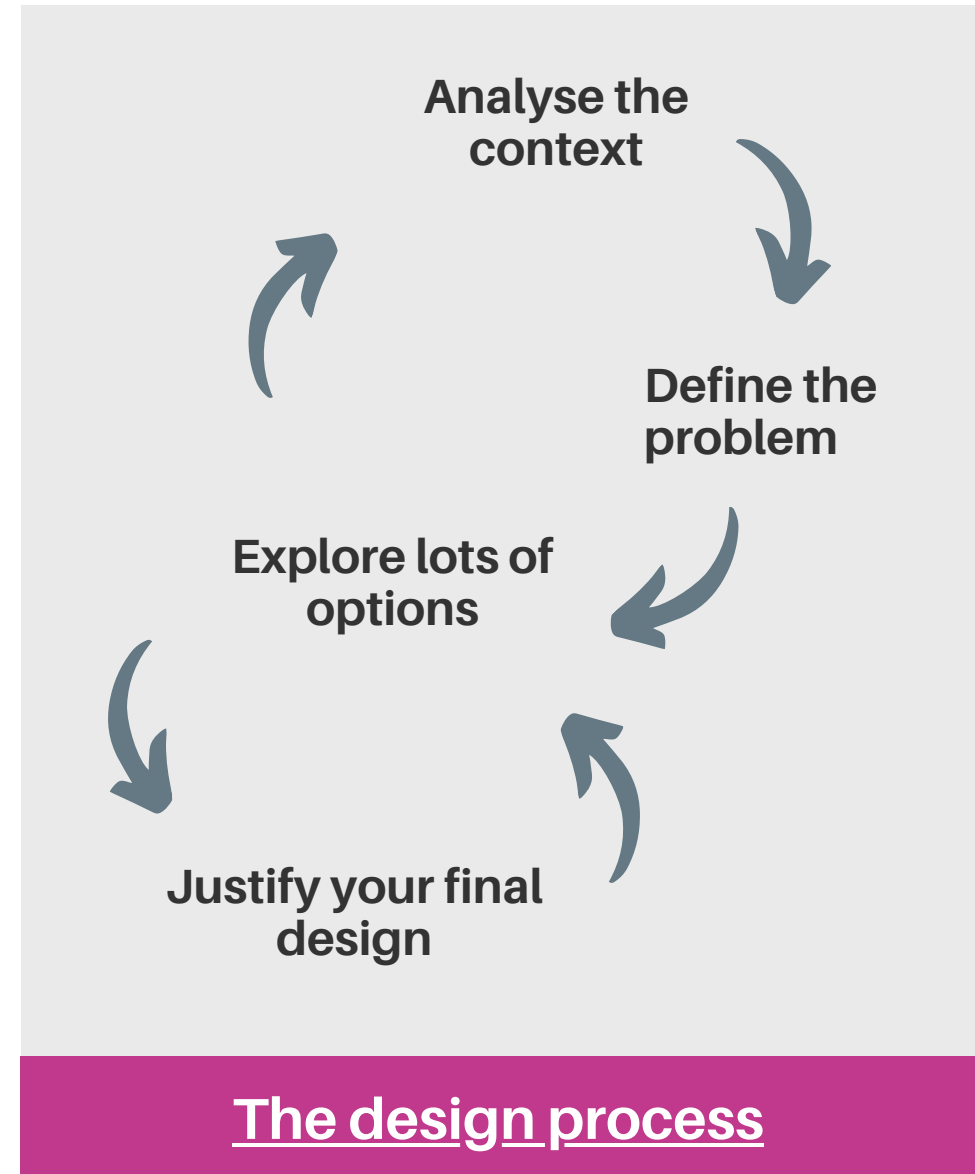
2 HOW YOU JUSTIFY YOUR SOLUTION

This relates to how effectively you use the design process to inform your decision-making, how your design could be tested, made and used practically, and who should contribute to your design.

3 REFLECTION ON YOUR LEARNING JOURNEY

This relates to how you document your reflections on the importance of global responsibility and what you have learnt as individuals and as a team.

SEE FULL BREAKDOWN BELOW



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1 YOUR APPRECIATION OF THE CONTEXT

Marking criteria	0	1	2	3	4	5
a Demonstrate inclusion of the social/community context	No evidence or consideration.	Little consideration or minor reference to the community context.	Some description of how the design is relevant or connects to the community context.	Clear description of how the design contributes to the community context.	See criteria for score 3. In addition, provides a structured description of the potential relationships and unintended consequences of the design to the community context.	See criteria for scores 3 and 4. In addition, provides a detailed description and evidence-based approach to justify how the design reaches the desired positive community impact.
b Demonstrate inclusion of the environmental context	No evidence or consideration.	Little consideration or minor reference to the environmental context.	Some description of how the design is relevant or connects to the environmental context.	Clear description of how the design contributes to the environmental context.	See criteria for score 3. In addition, provides a structured description of the potential relationships and unintended consequences of the design to the environmental context.	See criteria for scores 3 and 4. In addition, provides a detailed description and evidence-based approach to justify how the design reaches the desired positive environmental impact.
c Demonstrate inclusion of the economic context	No evidence or consideration.	Little consideration or minor reference to the economic context.	Some description of how the design is relevant or connects to the economic context.	Clear description of how the design contributes to the economic context.	See criteria for score 3. In addition, provides a structured description of the potential relationships and unintended consequences of the design to the economic context.	See criteria for scores 3 and 4. In addition, provides a detailed description and evidence-based approach to justify how the design reaches the desired positive economic impact.

SEE SECTION 2 ON NEXT PAGE

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2 HOW YOU JUSTIFY YOUR SOLUTION

Marking criteria	0	1	2	3	4	5
a Demonstrate reasoning and justification behind the selected design option	No evidence or consideration.	Little or minor evidence of assessment process used.	Selection criteria used. Some description of design iterations.	Selection criteria has a deep consideration for people and planet. Clear evidence and documentation of analysis and evaluation behind design iterations.	See criteria for score 3. In addition, analysis and evaluation behind the design iterations are structured and logical, including the limitations of design iterations and their appropriateness to the context.	See criteria for scores 3 and 4. In addition, provides well-documented and well-reasoned design iterations that clearly consider how they contribute to increasingly positive impact, including identifying, verifying and logging assumptions in the team's decision-making.
b Demonstrate consideration of implementation of design and predicted difficulties	No evidence or consideration.	Little or minor consideration of how the design will be implemented.	Some description and planning of how the final design will be implemented.	Clear evidence and documentation of implementation and business plans, with broader consideration for people and planet.	See criteria for score 3. In addition, implementation and business plans are structured and logical, including how to measure the potential impact and tensions of the final design across its life-cycle.	See criteria for scores 3 and 4. In addition, provides detailed inclusive and appropriate implementation and business plans, including how the team would collaborate with the community and any relevant stakeholders who could contribute to funding and increasing the positive impact of the final design across its life-cycle.

SEE SECTION 3 ON NEXT PAGE

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3 REFLECTION ON YOUR LEARNING JOURNEY

Marking criteria	0	1	2	3	4	5
a Evidence of reflection and critical thinking	No evidence of reflection.	Little or minor evidence of reflection from some members of team	Self-reflection provided by all team members, alongside a shared team-reflection.	See criteria for score 2. In addition, teams reflect on whether (and if so, how) working on their project has given them a broader consideration for people and planet.	See criteria for scores 2 and 3. In addition, teams reflect on what worked well and what they would do differently next time.	See criteria for scores 2, 3 and 4. In addition, teams reflect on the importance of each stage of the design process in shaping how globally responsible their final design is.