Investigation Skills - The Tender Process

Task 2 of the Scenairo tender

1 Investigate various possible structures that could solve the problem. Include the following design aspects:
- a What problem has to be solved?
- b Where are you going to start the process?
- c Where will you build the bridge?
- d When will you have to start so that you finish in time?
- e Who will be using the final product?
- f Analyse existing products relevant to the problem in terms of:
  - fitness-for-purpose (including suitability of materials)
  - safety for users
  - cost of materials
  - cost of construction.
- g Work out realistic costs of:
  - real materials
  - labour
  - transport.

Answers

1a.

b.

c.

d.

e

f

g

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2. Draw a plan and the necessary documents that will be required for the tender.

Your tender proposal must include:

- a clear design brief with specifications and constraints
- detailed working drawings
- an aesthetic, ergonomic, functional and structurally sound scale model
- a poster of the bridge design, done as an isometric drawing with shading and colour
- a detailed evaluation motivating why your bid should win the tender.

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