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# Basic Concept son Ecodesign

## Unit 5: Principles/Strategies of Ecodesign

### Quiz and Assignment

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## 5.1. Quiz

■ PLEASE, CHOOSE THE CORRECT ANSWER:

1. Strategies of Ecodesign are based on:
  - a. The reduction of consumption of resources and waste, dumping and emission generation.
  - b. The reduction of consumption of energy and waste generation.
  - c. The minimisation of materials and energy consumed during production.
  
2. The implementation methodology of Ecodesign strategies may be divided into several levels:
  - a. Conceptualisation, materials purchase, manufacture, application, end of life.
  - b. Conceptualisation, manufacture, application and end of life.
  - c. Conceptualisation, manufacture, distribution, application and end of life.
  
3. Strategy 0 “New Concept” requires a profound reflection on the amount of resources that are going to be consumed by the Product System and sub-strategies that can be adopted such as:
  - a. Dematerialisation and minimisation of the products use.
  - b. Dematerialisation and multifunctionality.
  - c. Dematerialisation and optimisation in a sole function.
  
4. Strategy 1 “Use of Low Impact Materials” involves:
  - a. Looking for alternative materials with less environmental impact and using the minimum number of materials that is possible.
  - b. The number of materials does not matter neither their lesser environmental aspect.



- c. None of the above.
5. Strategy 2 “Reduction of materials” involves:
- a. That optimising the amount of materials used in manufacturing has priority over the technical function and commercialisation.
  - b. Optimising the amount of materials used in manufacturing without compromising the technical or commercial viability of the product.
  - c. None of the above.
6. Strategy 3 “Optimisation of Production” may use strategies such as:
- a. Reduction of the consumed energy in the manufacturing process.
  - b. Waste reduction.
  - c. Reduction in the number of production processes and the use of cleaner alternative techniques and methods.
7. Strategy 4 “Optimisation of the Distribution System” may use strategies such as:
- a. Reduction of weight or volume of packaging material.
  - b. Use of vehicles of transport with low environmental impact.
  - c. Use of traditional materials if the stated in a happens.
  - d. a and b are correct.
  - e. b and c are correct.
8. Strategy 5 “Reduction in Environmental Impact of Use” involves:
- a. Considering maintenance of the product and reducing it as much as possible.
  - b. Considering maintenance of the product and outsourcing it.
  - c. None of the above.



9. Strategy 6 “Optimisation of Life-time” involves:

- a. Limit durability of the product to what legislation strictly requires.
- b. Increase life-time of the product.
- c. None of the above.

10. Strategy 7 “Optimisation of End-of-life” involves:

- a. Providing the recycling and reuse of the components of the product at its end-of-life.
- b. Providing disassembly of the product for its final disposal in a dump.
- c. None of the above.

## 5.2. Assignment

- Which strategies and sub-strategies would you be interested in using on the product you chose in the Unit 1 task?

