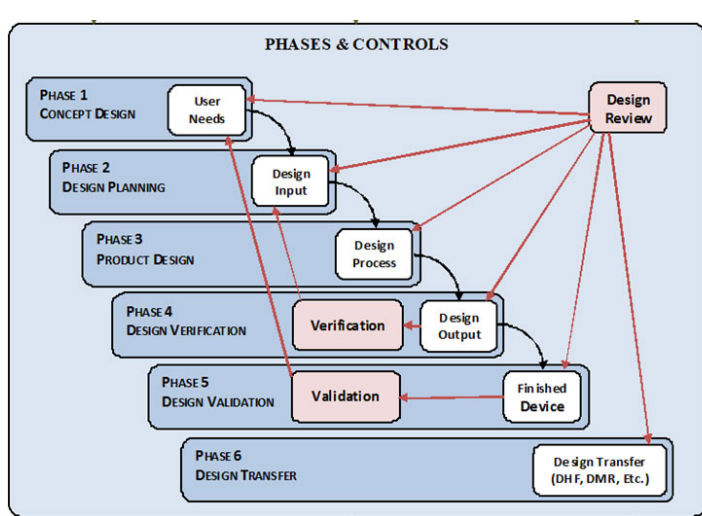


Usability Engineering



1. **Concept Design** – concept, planning and risk analysis
2. **Design Planning** – feasibility analysis into tech requirements
3. **Product Design** – iterate on product design
4. **Design Verification** - ensure the design output matches the specified design input
5. **Design validation** – final validation of the system
6. **Design transfer** - product launch preparation
7. **Product launch** (market release) and post-market activities

Please, for each phase below, select the right activities among the indicated options (more than one option is possible for each phase)

Concept Design

concept, feasibility and risk analysis

- ☐ User needs
- ☐ Use Specifications (context of use definition)
- ☐ System Requirements
- ☐ Project Plan

Design Planning

feasibility analysis into tech requirements and plans

- ☐ Project Plan
- ☐ Task Analysis
- ☐ System Requirements
- ☐ Verification Plan (planning activities and protocols)

☐ Project Plan Product Design

iterate on product design

- ☐ System requirements & Specifications (included UI specifications)
- ☐ Formative testing (Plan, Protocol, Report)
- ☐ Formative evaluations (Plan, Protocol, Report)
- ☐ Verification Plan (planning activities and protocols)

Design Verification

ensure the design output matches the specified design input

- ☐ Validation Plan (protocol)
- ☐ Formative testing (Plan, Protocol, Report)
- ☐ Formative evaluations (Plan, Protocol, Report)
- ☐ Verification report

Design Validation

final validation of the system

- ☐ Validation Report
- ☐ Formative testing
- ☐ Summative testing
- ☐ Traceability

Definitions

Please provide the following definitions:

Human Factors

Usability

Ergonomics

Please define the graphical representation for these 3 concepts: "User" – "Customer" – "Human"

Please provide the difference between the concepts of "Human-centered design" & "User-centered