EPICS High Project Management

Project Identification Phase: Identify a specific, compelling need to be addressed

Gate 1: Continue when an appropriate EPICS project that meets a compelling need has been Identified

Specification Development Phase: Understand "what" is needed by understanding context, stakeholders, requirements of the project, and why current solutions don't meet needs. Develop measureable criteria in which design concepts can be evaluated.

Gate 2: Continue when project partner and teacher agree that the "right" need has been identified, and no existing commercial products meet design specifications.

Conceptual Design Phase: Expand the design space to include as many solutions as possible. Evaluate different approaches and select the "best" one to move forward. Explore "how".

Gate 3: Continue when project partner and teacher agree that solutions have been explored and best solution has been chosen.

Detailed Design Phase: Design a working prototype which meets functional specifications.

Gate 4: Continue upon demonstration of feasibility of solution. Project partner and teacher approval required.

Delivery Phase: Refine detailed design to produce a product that is ready to be delivered! In addition, the goal is to develop user manuals and training materials.

Gate 5: Continue if Project Partner and teacher agree that project is ready for delivery!

Service/Maintenance Phase

Gate 6: Project Partner and teacher approve on plan for maintenance of project. If not, retire or redesign.

Retirement or Redesign

EPICS Design Process

Project Identification

Redesign

Retirement

Specification Development

Needs Assessment
User Analysis Observation
Brainstorming Research

Stakeholders

User Training Prototyping
Field Testing Scenarios
Usability Testing…

Conceptual Design

Service Maintenance

Detailed Design

Delivery