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## PLC and Related Methodologies

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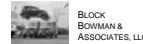


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## Contemplative Questions

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- ▶ What are the various approaches to implementing ideas as projects?
  - ▶ Is there one best way?
  - ▶ What does the popular term "PLC" actually mean?
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## PLC

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- ▶ PLC stands for
    - Project
    - Life
    - Cycle
  - ▶ What does it mean?
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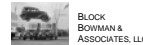
## PDLC

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- ▶ PDLC stands for
  - Project Development Life Cycle
  - First, implementing an idea is a Life Cycle.
  - All projects have a life cycle or a series of stages they naturally undergo.
    - The number and name of the stages varies, but the primary stages are conception, *development*, maturity and decline.
    - The Project Development life cycle (SDLC) therefore, refers to the development stage of the system's life cycle.

Why are we so interested in the *development* stage? What about conception, maturity and decline?

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## PDLC Approach

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- This approach essentially refers to a linear sequence of stages to take an idea from planning to analysis and design to implementation.
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## Project Development Life Cycle

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- ▶ We are going to look at 7 distinct phases:
    - Project Identification and Selection
    - Project Initiation and Planning
    - Analysis
    - Design
    - Project Implementation
    - Launch
    - Ongoing Maintenance and Enhancements
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## Phases of the Systems Development Life Cycle

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1. Project Identification and Selection
  - Two Main Activities
    - Identification of need
    - Determine Solutions
    - Develop rough idea of benefits, stakeholders and risks
  - Helps determine whether or not further time should be dedicated to a project.
2. Project Initiation and Planning
  - Two Activities
    - Formal preliminary investigation of the problem at hand
    - Presentation of reasons why the solution should be accepted by the department or organization



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## Systems Development Life Cycle

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3. Analysis
  - Study of existing state
    - Study current procedure, products, competitors or methods
    - Identify problem or opportunity
  - Further refine your idea based on the Analysis above
  - Outcome of Analysis Phase:
  - Defined end-result and benefits



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## Systems Development Life Cycle

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4. Design
  - Logical Design and Physical Design
    - Design the business aspects of the procedure or service
  - Description in Layman's Terms
    - Then technical specifications, requirements, resources
5. Project Implementation
  - Implementation
    - Get Team together
    - Develop list of tasks and assign responsibilities
    - Develop time line, resource lists, milestones
    - Develop Gantt Chart (and perhaps CPM)



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## Systems Development Life Cycle

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- Launch the Project
- Continual Monitoring and Feedback
- Communication
- Alpha testing
- Beta Testing
6. Launch
  - Project is finalized for initial use
  - Product or service or procedure is put into place and officially announced as in use.
  - Beta test
7. Ongoing Enhancement, Feedback and Maintenance
  - System changed to reflect feedback and bugs
  - System changed to reflect changing conditions
  - System obsolescence



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