

Project Lifecycle

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1 Introduction

- A project is something that has a beginning and an end. That
- Learning cycles:
 - understand and frame the problem
 - plan
 - act
 - reflect and learn
- typical lifecycle:
 - define goal (provides destination)
 - plan (provides the route)
 - objectives: scope, schedule, budget, quality
 - resources; people, facilities, technology
 - controls: ensuring project goals and objectives are met,
 - execution of project plan
 - project end
 - evaluation (analysis what went right/wrong).
- knowledge areas for management

- project integration management: development, execution, and control of changes.
- project scope
- time
- cost
- quality
- human resource: people are most important resource; develop a project team as well understanding and responding to the behavioral side of project management
- communication
- risk
- procurement; resources outside organization
- stakeholder management
- process: an activity with inputs and outputs.
- project management process
- initiating project process
- business case;
- planning process; scope planing, activity planning,
- executing;
- monitoring and controlling
- progress metrics
- closing; lessons learned
- SDLC: systems development life cycle
- planning
- analysys
- design
- implementation
- maintenance

- support
- project life cycle focuses on phases, processes, tools, knowledge, and skills for managing a project.
- sdlc focuses on creating and implmeneting the project product.
- SDLC is part of PLC; much of development happens during "execution" phase of PLC
- Waterfall:
 - define requirements
 - design
 - build
 - test
 - deploy
 - maintain
- Agile:
 - individuals and interactions over processes and tools
 - working software over comprehensive documentation
 - customer collaboration over contract negotiation
 - responding to change over following the plan
 - Agile themes:
 - frequent releases of working software
 - integrated testing to enable quick turn-arounds
 - what went right, what went wrong.
 - learning record:
 - what we know —
 - what we think we know (assumptions) —
 - what we don't know (questions to be answered).
 - Action plan:
 - who— does what — by when?