

1 Project Lifecycle: Introduction

- A project is something that has a beginning and an end.
- 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?