

# IT PROJECT MANAGEMENT

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# Introduction to Project Management

- ▶ The application of knowledge, skills, tools, and techniques to meet the project requirements. (PMBOK)
- ▶ It is a disciplined approach to defining, planning, strategizing, communicating, and controlling a project
- ▶ Creates a vision for success, for clients and teams, and gets everyone on the same page of what's needed to stay on track for success
- ▶ Enables organizations to execute projects effectively and efficiently.
- ▶ Technique- a defined systematic procedure employed by a human resource to perform an activity to produce a product or result or deliver a service
  - ▶ May employ one or two tools.
- ▶ Tools – something tangible such as a template or software program, used in performing an activity to produce a product or result.
- ▶ Effective Project Management helps individuals, groups, organizations to:
  - ▶ Meet business objectives
  - ▶ Satisfy stakeholder expectations
  - ▶ Deliver the right products at the right time
  - ▶ Resolve problems and issues
  - ▶ Respond to risk in a timely manner

# Project Management

- ▶ Poorly Managed projects may result in:
  - ▶ Missed deadlines
  - ▶ Cost overruns
  - ▶ Poor quality service / product
  - ▶ Rework
  - ▶ Uncontrolled expansion of project
  - ▶ Loss of reputation among clients / potential client
  - ▶ Unsatisfied stakeholders
  - ▶ Failure to achieve project objective.

# Project Management

## ▶ Benefits

- ▶ Stakeholder Benefits
- ▶ Better scheduling and budgeting
- ▶ Better cost containment
- ▶ Better communication
- ▶ Better change management processes including configuration management
- ▶ Better quality planning, quality assurance processes, and quality acceptance steps
- ▶ Better risk management

# Introduction to Project Management

## ▶ Team Member Benefits

- Less rework
- Better definition of work requirements
- Better understanding of roles and responsibilities
- Improved productivity of work through

## ▶ Functional Manager Benefits

- Better allocation of resources
- Better communication throughout the company
- Improved work instructions
- Improved documentation processes
- Department resource levelling, staff retention and training
- Quality processes for their expertise

# Introduction to Project Management

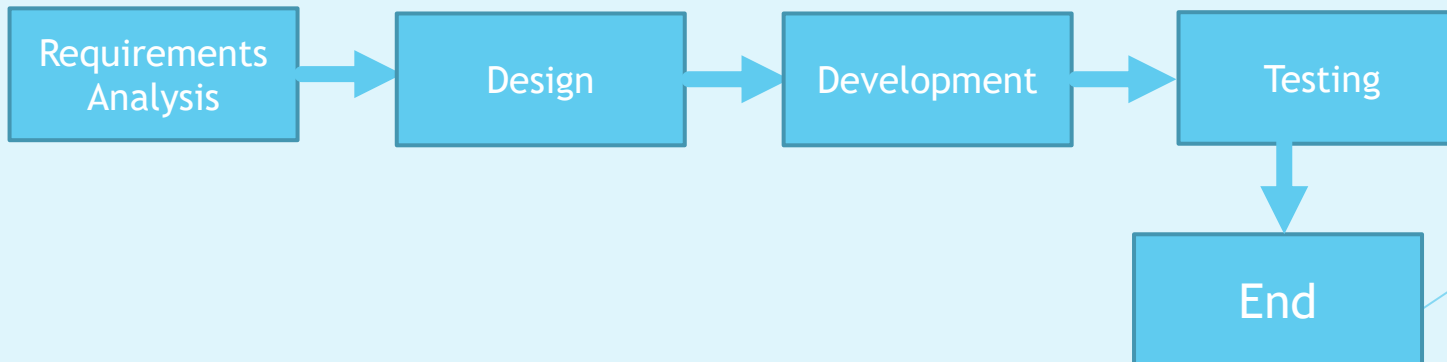
## ► **Senior Manager Benefits**

- Better use of company resources
- More attention to risk management
- Better project cost and schedule estimating
- Better project monitoring and control

# Project Life Cycle

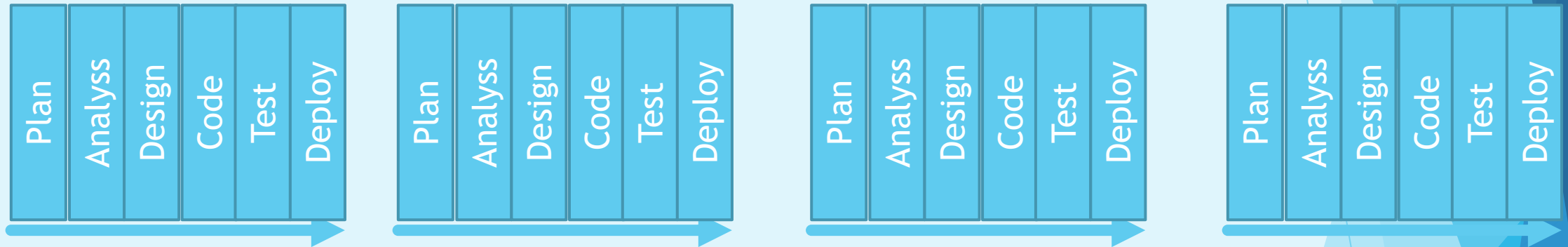
## ▶ Project and Development Life Cycles

- ▶ A project life cycle is the series of phases that a project passes through from its start to its completion.
  - ▶ The phases may be sequential, iterative or overlapping.
  - ▶ Life cycles can be predictive or adaptive.
- ▶ Development Life cycle is the phase(s) of a project associated with the development of the product, service or result.
  - ▶ Can be predictive, iterative, incremental, adaptive, or a hybrid model.
- ▶ Predictive Life Cycle - the project scope, time, and cost are determined in the early phases.
  - ▶ Any changes are carefully managed.
  - ▶ Also referred to as waterfall life cycles.



# Project Life Cycle

- ▶ Iterative Life Cycle - project scope generally determined early in the project life cycle, but time and cost estimates are routinely modified as the project team's understanding of the product increases.
  - ▶ Develops program through repeated cycles, while increments successively add to the functionality of the product.



- ▶ Frequent deliveries after each iteration.
  - ▶ With deliveries improved on in the next iteration
- ▶ Needed when requirements are abstract.
- ▶ To accommodate changes in scope.
- ▶ Good for research projects.



# Project Life Cycle

## ▶ Life Cycles

- ▶ Incremental Life Cycle - the deliverable is produced through a series of iterations that successfully add functionality within a predetermined time frame.
  - ▶ The deliverable contains the necessary and sufficient capability to be considered complete only after the final iteration.
  - ▶ Develops features incrementally i.e. one by one
    - ▶ Features are usable and consumable
- ▶ Adaptive life cycles are agile, iterative or incremental
  - ▶ The detailed scope is defined and approved before the start of iteration.
  - ▶ Requirements are dynamic.
  - ▶ Activities are repeated until correct.
  - ▶ Also referred to as agile or change-driven life cycle.
- ▶ Hybrid Life Cycle - a combination of a predictive and an adaptive life cycle.

# Project Life Cycle

## ▶ Project Phase

- ▶ A collection of logically related project activities that culminates in the completion of one or more deliverables.
- ▶ Phases in a life cycle can be described by a variety of attributes which may be measurable and unique to a specific phase.
- ▶ Attributes
  - ▶ Name
  - ▶ Number
  - ▶ Duration
  - ▶ Resource Requirements
  - ▶ Entrance criteria for a project to move to the next phase
  - ▶ Exit criteria for the completion of a phase

# Project Life Cycle

- ▶ Project phases may be established based on various factors including
  - ▶ Management needs
  - ▶ Nature of project
  - ▶ Unique characteristics of the organization, industry, or technology
  - ▶ Project elements including technology, engineering, business, process, or legal
  - ▶ Decision points e.g. funding, go/no-go decision
- ▶ Phase Gate
  - ▶ Held at the end of a phase.
  - ▶ Project's performance are compared to project and business documents including:
    - ▶ Project business case
    - ▶ Project charter
    - ▶ Project Management Plan
    - ▶ Benefits management plan
  - ▶ A decision (go/no-go decision) is made as a result of this comparison to:
    - ▶ Continue to the next phase
    - ▶ Continue to the next phase with modification
    - ▶ End the project
    - ▶ Remain in the phase or
    - ▶ Repeat the phase or elements of it.