



**University of Thi-Qar/ College of Engineering**

**Petroleum and Gas Eng. Dept.**

# **PROJECT MANAGEMENT AND PLANNING**

***Lecture 1-4<sup>th</sup> Year***

Lecturer

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## Definition of Project

A complex, non-routine, one-time effort limited by time, budget, resources, and performance specifications designed to meet customer needs.

### •Major Characteristics of a Project

- Has an established objective.
- Has a defined life span with a beginning and an end.
- Typically requires across-the-organizational participation.
- Involves doing something never been done before.
- Has specific time, cost, and performance requirements.

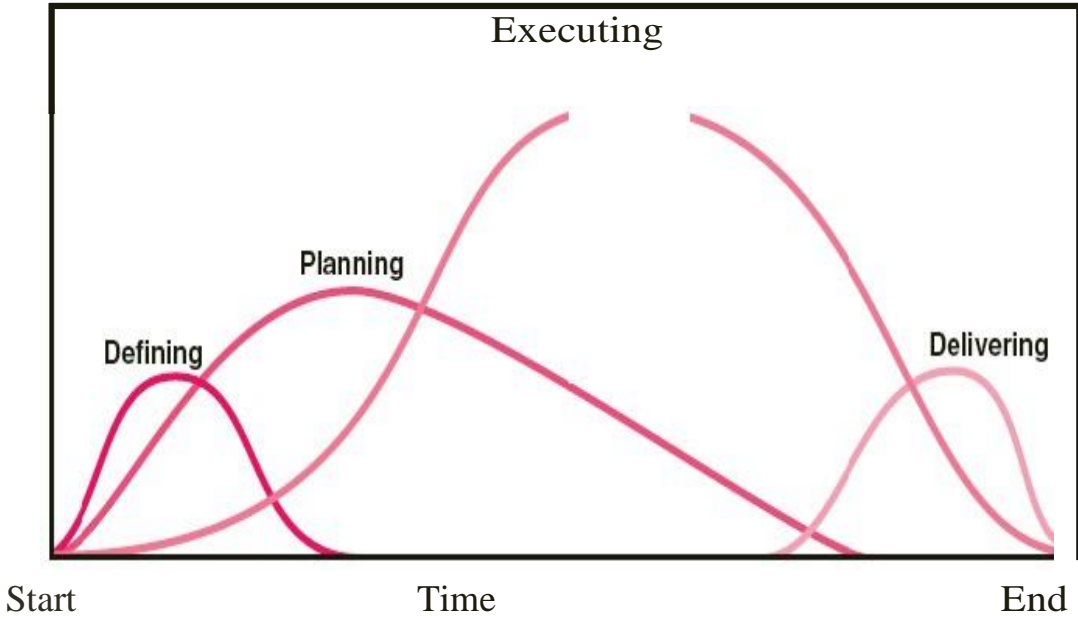
## Programs versus Projects

### • Program Defined

- A series of coordinated, related, multiple projects that continue over an extended time and are intended to achieve a goal.
- A higher-level group of projects targeted at a common goal.
- **Example:**
  - **Project:** completion of a required course in project management.
  - **Program:** completion of all courses required for a business major.

# ProjectLife Cycle

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## Defining

1. Goals
2. Specifications
3. Tasks
4. Responsibilities

## Planning

1. Schedules
2. Budgets
3. Resources
4. Risks
5. Staffing

## Executing

1. Status reports
2. Changes
3. Quality
4. Forecasts

## Delivering

1. Train customer
2. Transfer documents
3. Release resources
4. Release staff
5. Lessons learned

## The Challenge of Project Management

- **The Project Manager**

- Manages temporary, non-repetitive activities and frequently acts independently of the formal organization.
  - Marshals resources for the project
  - Provides direction, coordination, and integration to the project team
  - Manages a diverse set of project stakeholders
  - Dependent upon others for technical answers
  - Is responsible for performance and success of the project
    - Must induce the right people at the right time to make the right decisions.

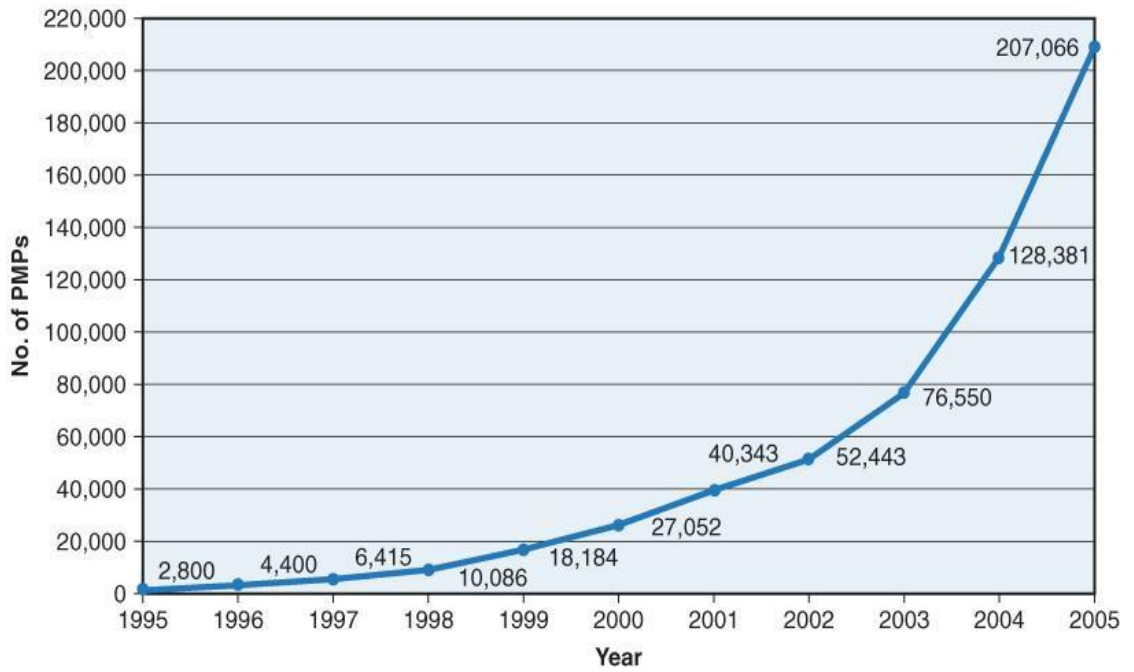
## The Importance of Project Management

- **Factors Leading to the Increased Use of Project Management:**

- Compression of the product life cycle
- Global competition
- Knowledge explosion
- Corporate downsizing
- Increased customer focus
- Small projects that represent big problems



## Growth in PMP Certification



## **Integrated Project Management Systems**

- **Integrated with strategic plan:**
  - A change in one part influence the whole system
  - Mission, objectives and strategies are set to satisfy the customer
  - Development of mission, objectives and strategies depends on external and internal factors
    - **External** – politics, social, economics and technological
    - **Internal** – strength and weakness of the organization
  
- **Implementing strategic plan:**
  - Most difficult step.
  - Need to implement through out project
  - Creative minds always propose more project
  - Keys = select from as many proposal that make the largest and most balanced contribution to objectives and strategies.
  - Need to prioritizing project, the resources are allocated to the right projects
  - Then focus to the project management process either to implemented or delivered.

