

# PROJECT MANAGEMENT

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Room: 1 - 65

# What is a PROJECT?

- A project is a **temporary** endeavour undertaken to create a **unique product, service or result**.
- **Progressive elaboration** is characteristic of projects that accompanies the concepts of temporary and unique.
  - Progressive elaboration involves continuously improving and detailing a plan as more detailed and specific information and more accurate estimates become available.
  - Progressive elaboration allows a project management team to define work and manage it to a greater level of detail as the project evolves

## A project can create:

- A product that can be either a component of another item or an end item in itself.
- A capability to perform a service.
- A result or document.

# Examples of projects

- Developing a new product or service,
- Performing a change in the structure, personnel or style of an organization,
- Developing or acquiring a new or revamped information system,
- Constructing a building or an infrastructure,
- Implementing a new business process or procedure.

# What is Project Management?

**Project management** is the application of knowledge, skills, tools and techniques to perform project activities to meet the project requirements.

Processes are:

- Initiation,
- Plan,
- Progress,
- Monitor and Control,
- Closure.

# Managing a project typically includes:

- Identifying requirements,
- Addressing the various **needs**, **concerns** and **expectations** of the stakeholders as the projects **planned** and **carried out**,
- Balancing the project constraints contrary to each other including, but not limited to:
  - ❖ **Scope**
  - ❖ **Quality**
  - ❖ **Schedule**
  - ❖ **Budget**
  - ❖ **Resources**
  - ❖ **Risk**

# Projects and Strategic Planning

- **A market demand** (an oil company authorizes a project to build a new refinery in response to chronic gasoline shortages)
- **An organizational need** (a training company authorizes a project to create a new course in order to increase its revenues)
- **A customer request** (an electric utility authorizes a project to build a new substation to serve a new industrial park)
- **A technological advance** (software firm authorizes a new project to develop a new generation of video games after the introduction of new game-playing equipment by electronics firms)
- **A legal requirement** (a paint manufacturer authorizes a project to establish guidelines for the handling of a new toxic material)

# Role of Project Manager

- Project manager is the one who is assigned by project organization to achieve the tasks of project.
- Requires understanding and application of knowledge, tools and techniques perceived as best practices.
- For effective project management,
  - Experience
  - Performance (project management knowledge)
  - Personality (behavior, basic personal characteristics, leadership etc.)



# Environmental Factors Affecting the Project

- Organizational culture
- Standards proposed by state or private sector
- Infrastructure
- Available human resources
- Human resource management
- Company's business approval systems
- Market conditions
- Stakeholders' risk policy
- Political atmosphere
- Communication channels of the organization
- Commercial databases
- Project management information systems

# The Project Management Knowledge Areas

- Project Integration Management
- Project Scope Management
- Project Time Management
- Project Cost Management
- Project Quality Management
- Project Resource Management
- Project Communication Management
- Project Risk Management
- Project Procurement Management
- Project Stakeholder Management