

Engineering Management

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Project Management

According to **ISO 9000/2000**

A **project** is a unique **process**, consisting of a set of coordinated and controlled activities with start and finish dates, undertaken to achieve an objective conforming to specific requirements, including the constraints of time, cost and resources.

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The outcome of a project may be one or several units of **product**.

A **product** is the result of a **process**.

A **process** is a set of interrelated or interacting activities which transforms inputs to outputs.

■Characteristic of a project

A unique, one-time operational activity or effort

Requires the completion of a large number of interrelated activities

Established to achieve specific objective

Resources, such as time and/or money, are limited

Typically has its own management structure

Need leadership

Project management

It is the discipline of planning, organizing, securing and managing resources to bring about the successful completion of specific project goals and objectives. It is the Coordinated activities to direct and control a project organization to realize a set of defined deliverables up to quality standards and requirements.

project manager

He is the professional specialist who plans and controls a project.
He is the person who acts in a transparent manner for the sake of the whole project to satisfy the expectations of the customers, the partners delivering goods and services for the project and the other interested parties

➤ Project Management Process Groups

Project management can be viewed as a number of interlinked processes

The project management process groups include

initiating processes

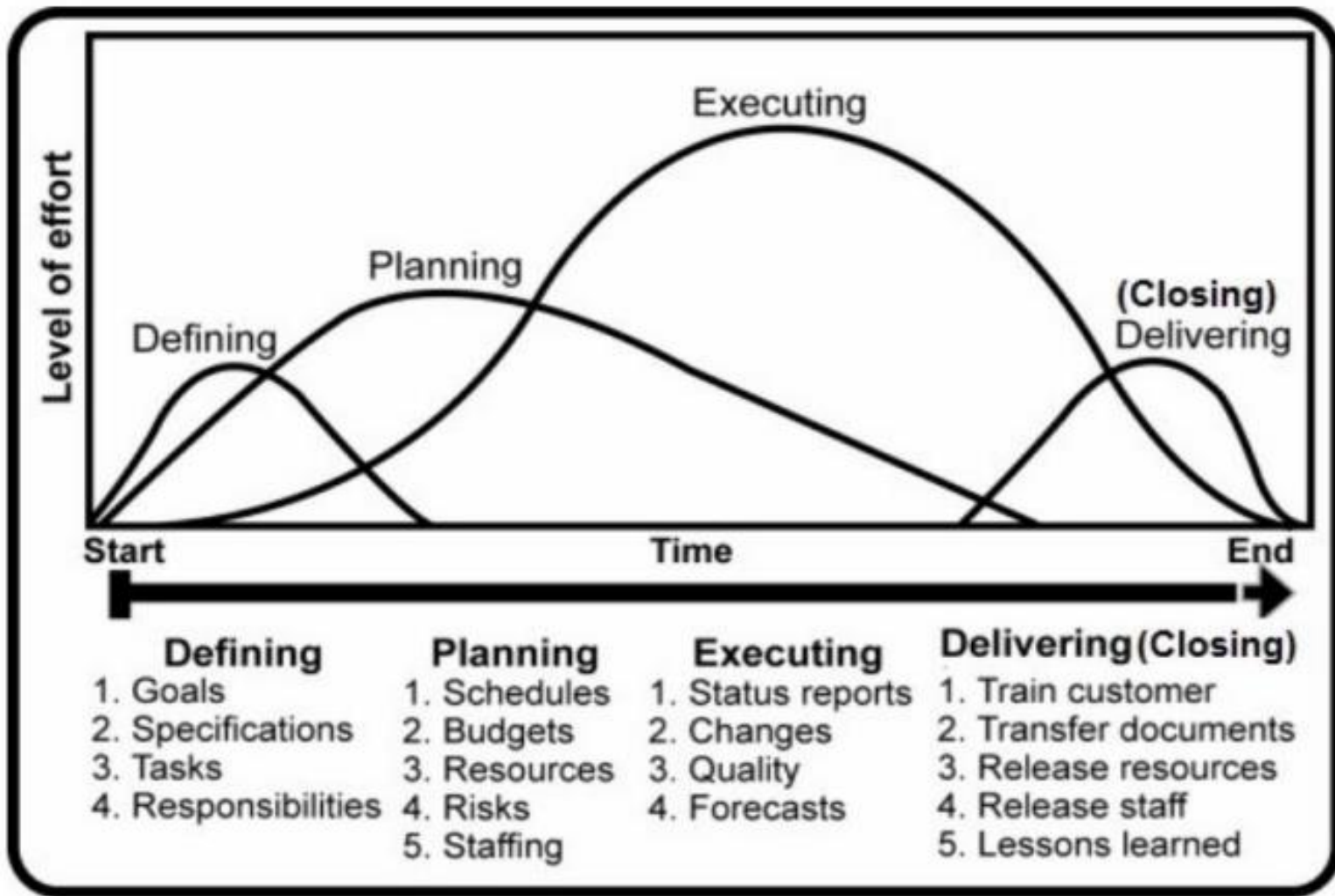
planning processes

executing processes

controlling processes

closing processes

Project life cycle



Conception: identify the need

Feasibility analysis or study: costs
benefits, and risks

Planning: who, how long, what to
do?

Execution: doing the project

Termination: ending the project

Coordination between Owner and Consultant

