



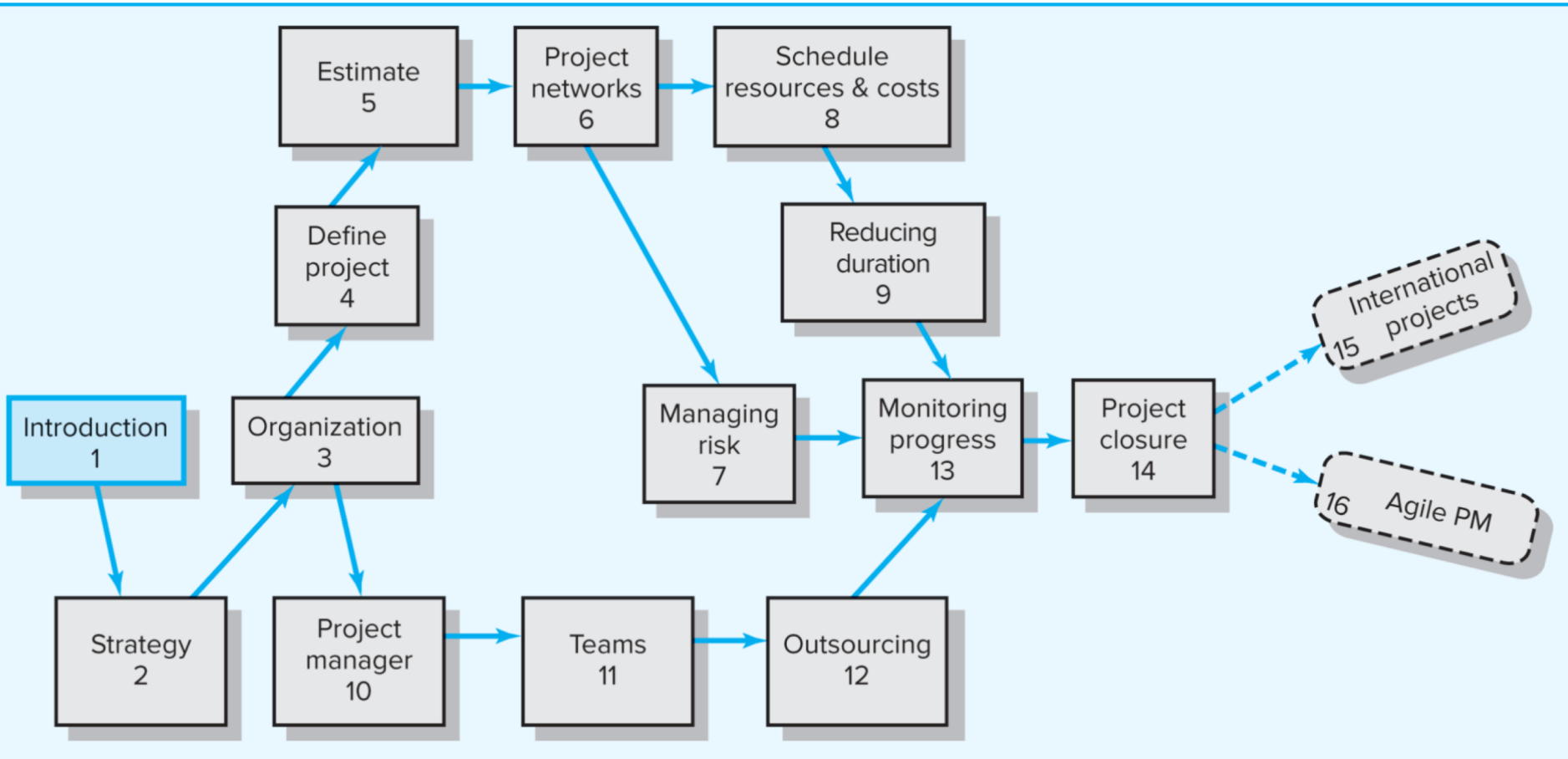
Faculty of Engineering

School of Mechanical and Manufacturing Engineering

Corey Martin

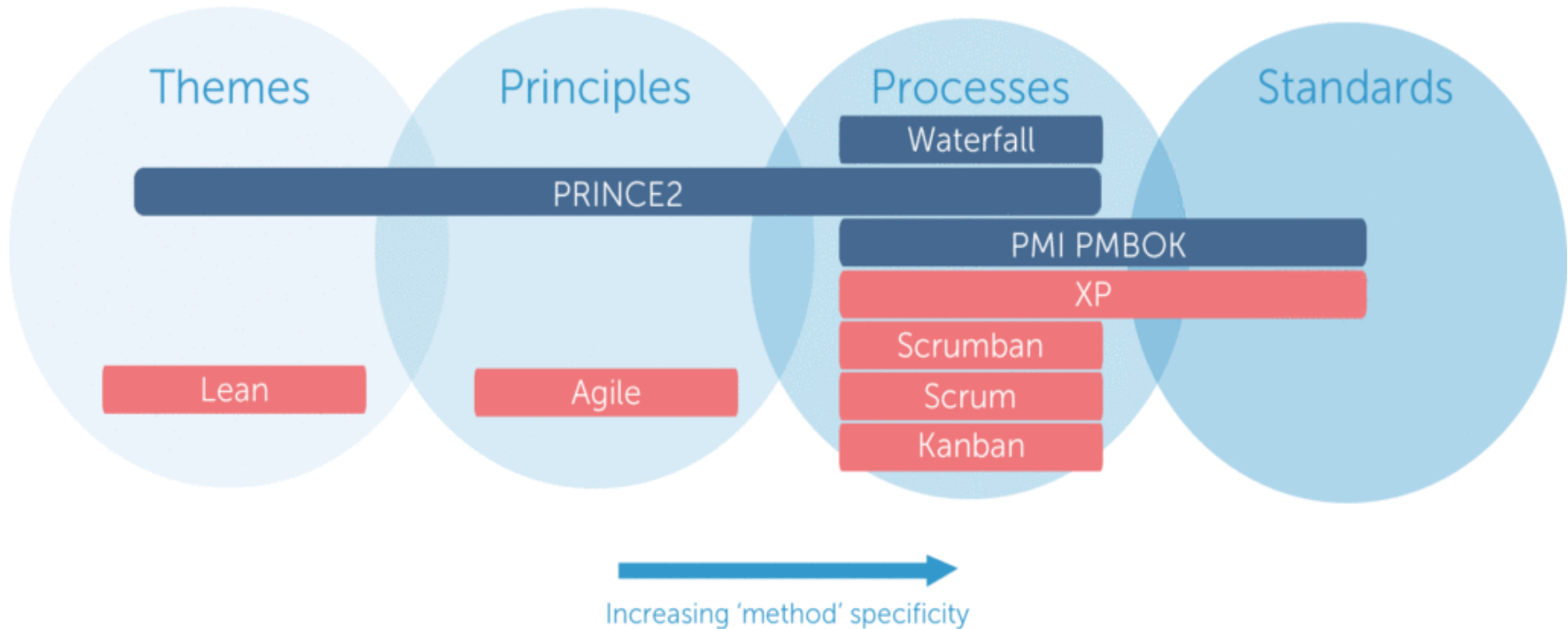
Introduction to modern project management

Course Road Map



Reference: Project management – the managerial process 7th ed.

Project Management Methodologies



Source: <https://thedigitalprojectmanager.com/project-management-methodologies-made-simple/>

What is the definition of a project?



[Respond online at [PollEv.com/coreyunsw](https://poll-ev.com/coreyunsw)]

Origins of “project”

Project

Projectum

Pro-icere = “before an action”

Pro = “precedence”

Icere = “to do/to throw together”

A project is ...

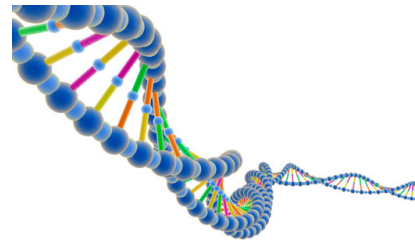
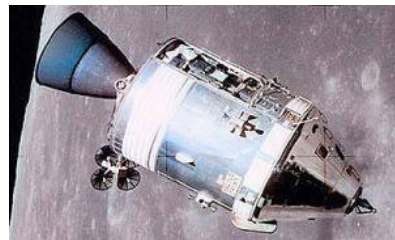
A temporary endeavour undertaken to create:

- A unique product *and/or*
- A service *and/or*
- A result.



Some examples of projects

- Building The Great Pyramid of Giza (2580–2560 BC)
- Apollo Project (1961–1975)
- Human Genome Project (1984-2003)
- Release of the movie : Penguins of Madagascar (2011-2014)



Characteristics of a project



Has an established objective;

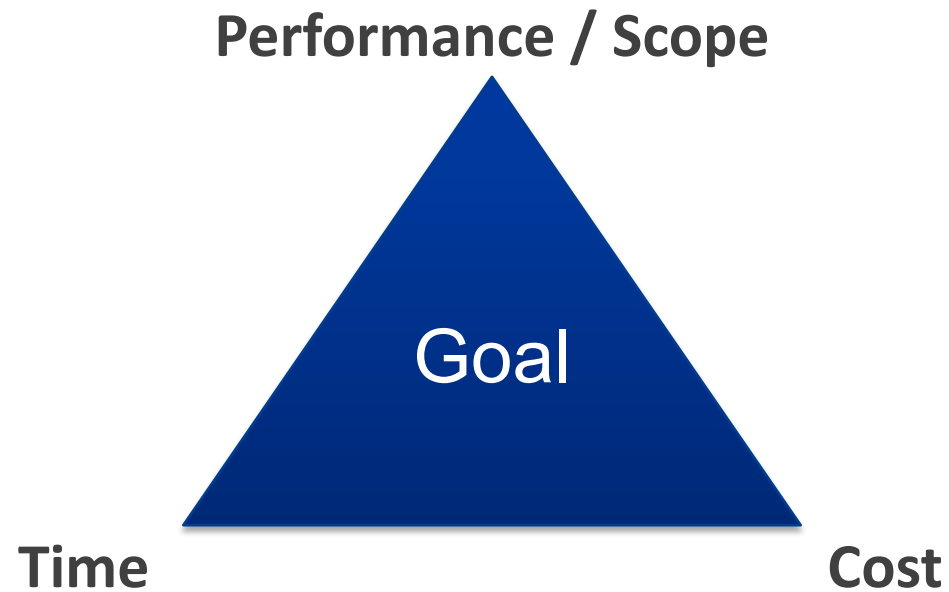
Has a defined life span with a beginning and an end;

Usually, involves several departments and specialists;

Non-routine and has some unique elements;

Specific time, cost, and performance requirements.

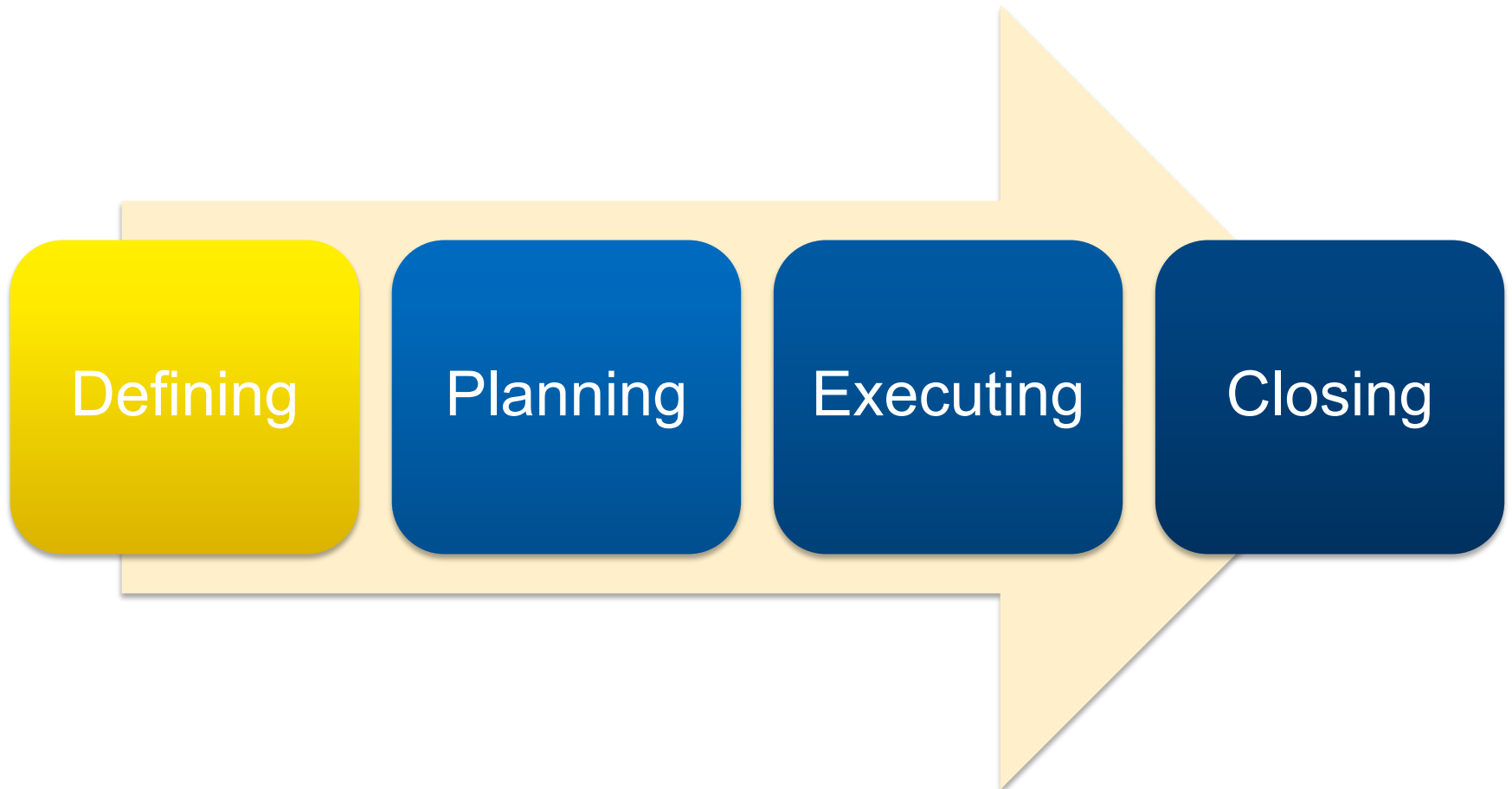
Triple Constraint Model



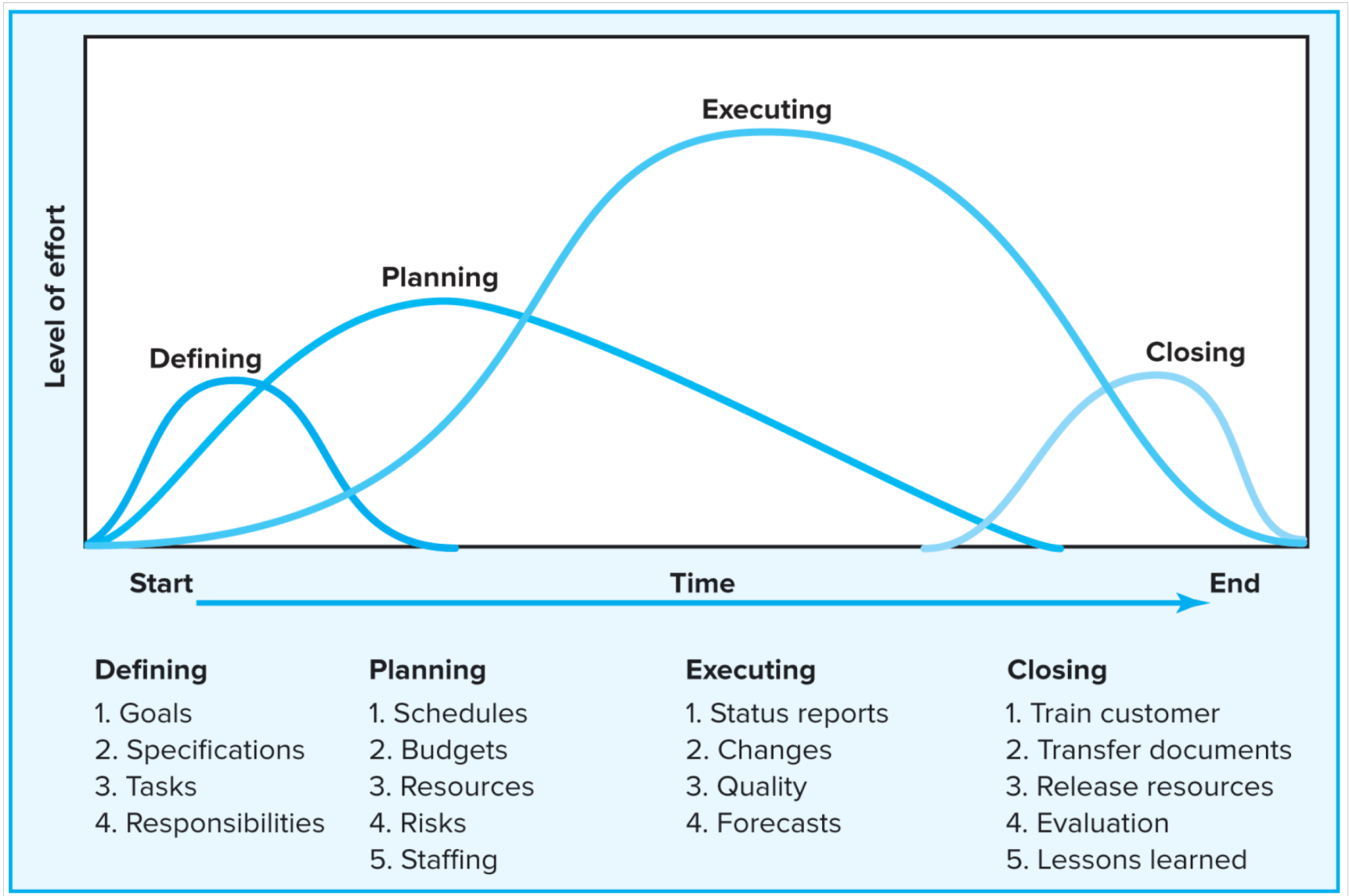
Examples of project vs. routine work

Routine, Repetitive work	Project
Taking class notes	Completing an assignment
Daily entering sales receipts into the accounting ledger	Setting up a sales kiosk for a professional accounting meeting
Responding to a supply-chain request	Developing a supply-chain information system
Practicing scales on the piano	Writing a new piano piece
Routine manufacture of an Apple iPod	Designing an iPod that interfaces with a PC, and stores 10,000 songs

Generic project life cycle model



Generic Project Lifecycle



What is Project Management?

The complete set of tasks, techniques, tools applied during the project life-cycle.



Importance of project management

Compression of the Product Life Cycle

- A rule of thumb in the world of high-tech product development is that a six-month project delay can result in a 33% loss in product revenue share.

Knowledge Explosion

- Product complexity has increased the need to integrate divergent technologies.

Triple Bottom Line (planet, people, profit)

- Businesses can no longer simply focus on maximizing profit to the detriment of the environment and society.

Importance of project management

Corporate Downsizing

- Project management is replacing middle management as a way of ensuring that things get done.

Increased Customer Focus & knowledge

- Customers no longer simply settle for generic products and services. They want customised products and services that cater to their specific needs.

Increasing speed of change and increase in the number of small projects running concurrently

- Small projects can represent hidden costs and inefficiencies

Introducing the Project Manager



Roles of the project manager

- Manages temporary, non-repetitive activities;
- Marshals resources for the project;
- Is linked directly to the customer interface;
- Provides direction, coordination, and integration to the project team;
- Is responsible for performance and success of the project;
- Must induce the right people at the right time to address the right issues and make the right decisions.

Dimensions of project management

