What is a “Project?”

A series of activities and tasks that
- Have a specific objective to be completed within certain specifications;
- Have defined start and end dates;
- Have funding limits (if applicable);
- Consume resources (i.e., money, people, & equipment)

What is a “Project?”

A series of activities and tasks that have
- SCOPE
  - Have defined start and end dates;
  - Have funding limits (if applicable);
  - Consume resources (i.e., money, people, & equipment)
What is a “Project?”

A series of activities and tasks that have

- **SCOPE**
- **TIME**
- Have funding limits (if applicable);
- Consume resources (i.e., money, people, & equipment)

**The Three Project Constraints:**

- **SCOPE**
- **TIME**
- **RESOURCES**
What is “Project Management?”

“Project management is the art of creating an illusion that any outcome is the result of a series of predetermined, deliberate acts when, in fact, it was dumb luck.”

Harold Kerzner, Project Management, pg. 3
What is “Project Management?”

“What project management is the planning, organizing, directing, and controlling of company resources for a relatively short term objective that has been established to complete specific goals and objectives.”

Harold Kerzner, *Project Management*, pg. 4

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Two Main Components

- **Planning**
  - Creating, then fine tuning, the overall project plan
- **Monitoring**
  - Tracking & reporting progress

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Measurements of Project Success

- Within specifications
- Within allotted time period
- Within the budgeted costs
- Accepted by the customer/user
- Minimal and mutual scope changes
- Within corporate culture & without disturbing organizational workflow
### Project Manager’s Role

- Responsible for coordinating and integrating activities across multiple and functional lines
- Understand operations of line organizations
- Familiar with technology
  - Master if in R&D activities

### What’s in the Successful Project Manager’s Toolbox?

- Strong communication skills
- Strong interpersonal skills
- Ability to
  - balance technical and managerial functions;
  - overcome organizational constraints;
  - cope with and survive risks

### Ten Specific Skills

- Team Building
- Leadership
- Conflict Resolution
- Technical Expertise
- Planning
Ten Specific Skills

- Organizing
- Entrepreneurship
- Administration
- Management support
- Resource allocation

Project Managers Manage

- Engineering
- Procurement
- Construction
- Finance
- Cost engineering

Project Managers Manage

- Schedule
- Environmental considerations
- Regulatory requirements and law
- Inflation & cost escalations
- Labor and client relations
Management Skills

- Human behavior and interpersonal relationships
  - Psychology
- Organizational behavior
  - Sociology
- Communications

Project Manager’s Responsibilities

- Planning agent
  - Overall and summary
  - NOT detailed planning
    • Functional or line managers
- Resolve conflicts
- Make tradeoffs

“Planning Architect” defines

- Complete tasks
- Resource requirements
- Major timetable milestones
- End-item quality and reliability requirements
- Performance measurements
What would a typical “Project Lifecycle” look like?