

Project Resource Management

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Chapter 5: Project Resource Management

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Learning Objectives

- Understand project resource management
- Identify types of project resources
- Learn how to plan and manage resources effectively
- Explain the importance of teamwork





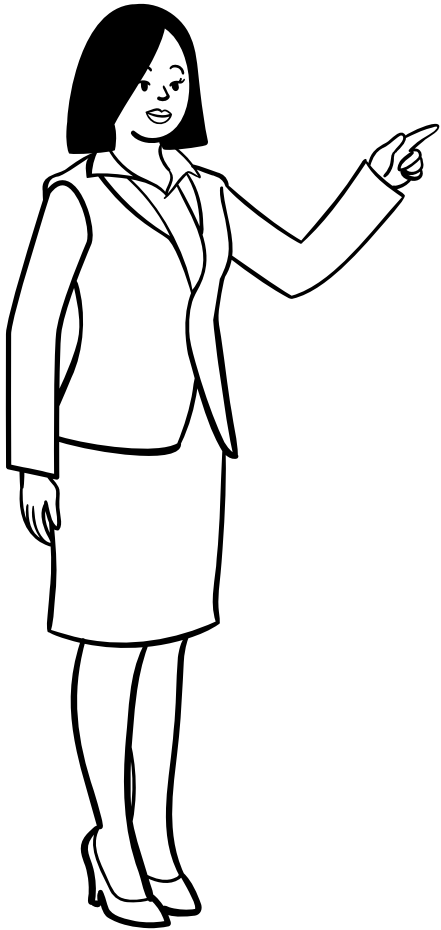
Introduction to Project Resource Management

- Project resource management focuses on using people, tools, and materials effectively.
- Proper resource management helps projects meet objectives efficiently





What Are Project Resources?



- Resources are assets required to complete project tasks.
- They include people, equipment, software tools, and budget





Types of Project Resources

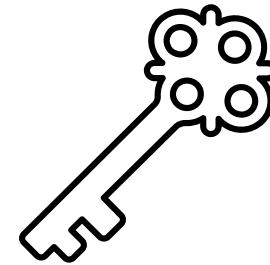
- Human resources.
- Physical resources.
- Financial resources.
- Technological resources.





Human Resource Management

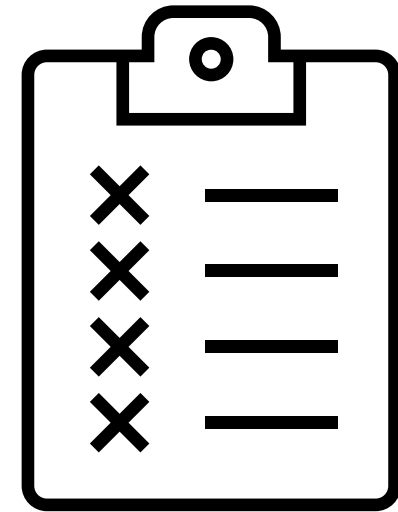
- Involves planning, acquiring, and managing the project team.
- Ensures the right people are assigned to the right tasks.





Project Team Roles

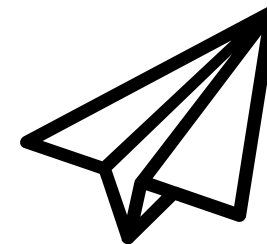
- Project Manager – leads and coordinates.
- Developers – build software.
- Testers – verify quality.
- Designers – create user interfaces.





Resource Planning

- Identifies required resources and availability.
- Helps avoid shortages or overloads.
- Supports scheduling and budgeting.





Resource Allocation

- Assigns resources to project tasks.
- Balances workload among team members.
- Improves productivity





Resource Scheduling

- Determines when resources are needed.
- Coordinates resource usage across tasks.
- Reduces conflicts





Resource Constraints

- Limited budget.
- Limited availability of skilled staff.
- Time constraints.





Managing Resource Conflicts

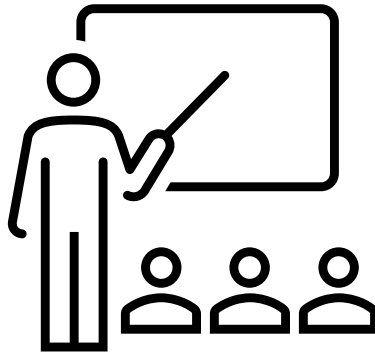
- Prioritize critical tasks.
- Negotiate resource usage.
- Adjust schedules if necessary.





Team Development

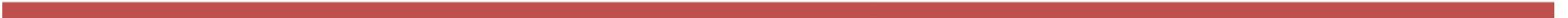
- Builds trust and collaboration.
- Improves communication and performance.
- Encourages motivation.





Motivation and Leadership

- Motivation increases productivity.
- Leadership supports team morale.
- Recognition improves performance.





Tools for Resource Management

- MS Project.
- Resource calendars.
- Team collaboration tools.





Monitoring Resource Usage

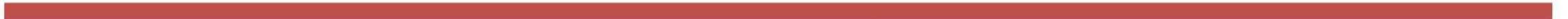
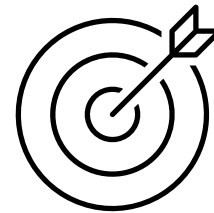
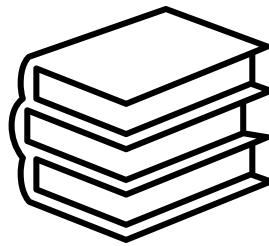
- Tracks actual vs planned resource usage.
- Identifies inefficiencies.
- Supports corrective actions.





Common Resource Management Issues

- Overworked team members.
- Skill mismatches.
- Poor communication.





Best Practices in Resource Management

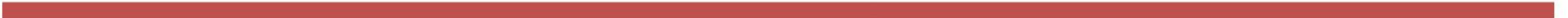
- Plan resources early.
- Communicate clearly.
- Review resource usage regularly





Summary

- Project resource management ensures efficient use of resources.
- People are the most critical resource.
- Effective management improves project success





Review Exercise

1. What are project resources?
 2. Why is human resource management important?
 3. What is resource allocation?
 4. How can resource conflicts be managed?
 5. Name one tool for resource management.
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