

# **Resource Management**

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# Resource Management

The primary objective of resource management is to ensure the resources of an organization are allocated and monitored efficiently.

Various processes have been defined to help us achieve this objective.

- Analyzing
- Acquiring
- Allocating
- Tracking

# Process and Steps

## Resource Analysis

The process of locating and assessing each resource that can be used to complete a project and/or reach a goal.

- Identifying and objectively assessing all the resources at your disposal
- Gathering and examining required information about the personnel, tools, supplies, and other resources needed.

## **Acquiring Resources**

Obtaining the personnel, tools, supplies, or other resources needed to complete the project.

## **Resource Allocation**

Allocating acquired resources wisely to specific tasks that allow them to perform at their highest level.

## **Resource Scheduling**

Allocating acquired resources in a manner that helps complete a project within a given time frame.

## **Resource Needs & Availability**

Identifying individuals within an organization available to take up the tasks.

- Resources need to be used to the fullest extent possible, regardless of its availability.
- Schedule and assign the tasks and allocate resources in advance, which will help you prevent last-minute snags.

## **Resource Tracking**

Tracking resource usage, availability, and performance.

- Gathering information on resource utilization
- Evaluating gathered information
- Acting to maximize resource utilization and ensure project goals are met

# **Influence On The Performance Of An Organization**

Resource management ensures the resources of an organization are allocated and monitored efficiently, the resources are available when needed.

- Saving Time
- Quality work
- Employee and customer satisfaction
- Maximizing utilization
- Project flow

## **Saving Time**

Resource management ensures the resources of an organization are allocated and monitored efficiently.

- Saving organizations valuable time that can be spent elsewhere to help develop an overall better project.
- Saved time plays a key role in reducing or in some cases outright eliminating the amount of "crunch time" required

## **Employee And Customer Satisfaction**

Resource management ensures the resources are available when needed.

- Individuals within an organization feel like their workload is more manageable
- Employee Satisfaction leads to:
- Increase in productivity
- Less conflict between peers
- Overall increase in the quality of work
- Overall better product



## **Maximizing Utilization and Minimizing Waste**

Resource management allows existing resources to be utilized to the fullest extent.

- Reusing hardware where possible leads to less waste.
- Decrease the amount of time spent acquiring resources

# Project Flow

Resource management ensures all resources needed for a project are consistently accessible, improving project flow.

- Project flow is a term used to describe how smoothly a project is operating, taking into consideration the frequency of issues.
- When all the resources are accessible a significant decrease in the frequency of issues is observed.

## **Contemporary Issues & IT Management Remedies**

Resource management in IT organizations faces various challenges due to the constantly changing technology and business landscapes.

## **Skilled Individuals**

Need of skilled individuals to keep up with new technologies. These technologies are becoming more important and there is a shortage of people with relevant skills.

- Artificial intelligence
- Augmented and Virtual Reality
- Blockchain
- Automation

## Potential solutions

To tackle such issues, IT management is focusing on.

- Proactively managing talent, constantly teaching and training employees to stay updated on new technologies.
- Attempting new ways to find skilled people, like partnering with schools and creating in-house training programs.

## **Global Resource Management**

Managing resources gets tricky when IT operations happen globally.

- Diverse cultures
- Remote work
- Several Time zones.

## Potential solutions

To tackle such issues, IT management is focusing on.

- Implementing project management methods like Agile and DevOps to allow efficient use of resources, especially when requirements and timelines change

## **Responsible Resource Usage**

The energy consumption of data centers and the pollution caused by IT operations is getting a lot of attention.



## Potential solutions

To address this, IT management is focusing on “green computing”.

- Finding ways to use energy more efficiently in data centers
- Looking into renewable energy sources.
- Life cycle of IT hardware, trying to reuse and recycle more to meet sustainability goals and follow regulations.

## Cybersecurity Breaches

As technology advances, so do the tactics of cybercriminals.

- Increasing the difficulty for IT organizations to safeguard their systems and data
- Shortage of skilled cybersecurity professionals to address the growing complexity of cyber threats.

## Potential solutions

To address this, IT management is focusing on.

- Prioritizing investments in cybersecurity training programs for their staff.
- Regular workshops and simulations to help employees stay informed.
- Implementing advanced security measures, such as multi-factor authentication and encryption.

**Thank you.**