Managing Projects Using MS Project 2013

DIGITAL OPERATIONS



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Learning Objectives

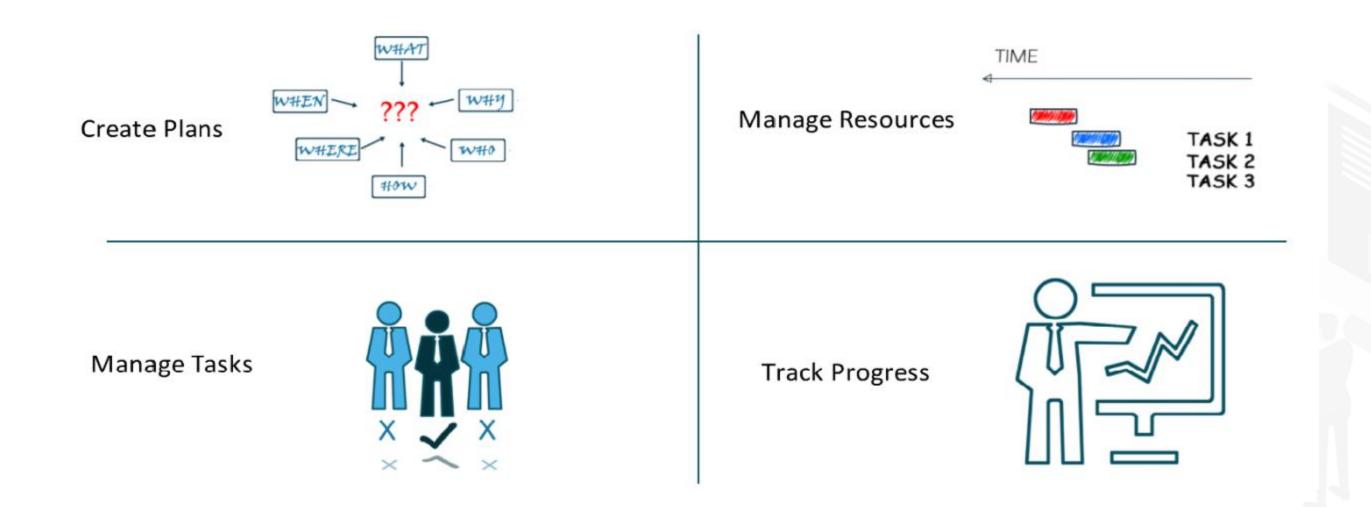
By the end of this lesson, you will be able to:

- Create a project using Microsoft Project 2013
- Navigate through the different features of Microsoft Project 2013
- Identify Critical Path using Microsoft Project



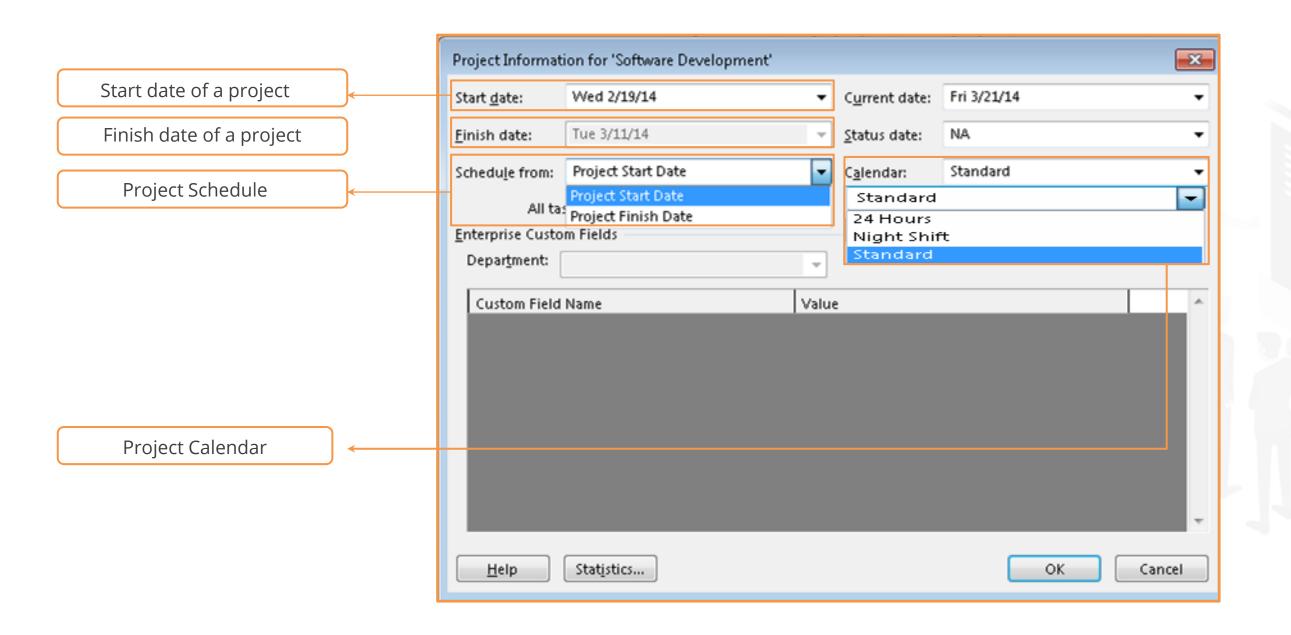
Microsoft Project 2013

Microsoft® Project 2013 is an application that enables you to plan and manage projects effectively.



Basic Information for a New Project

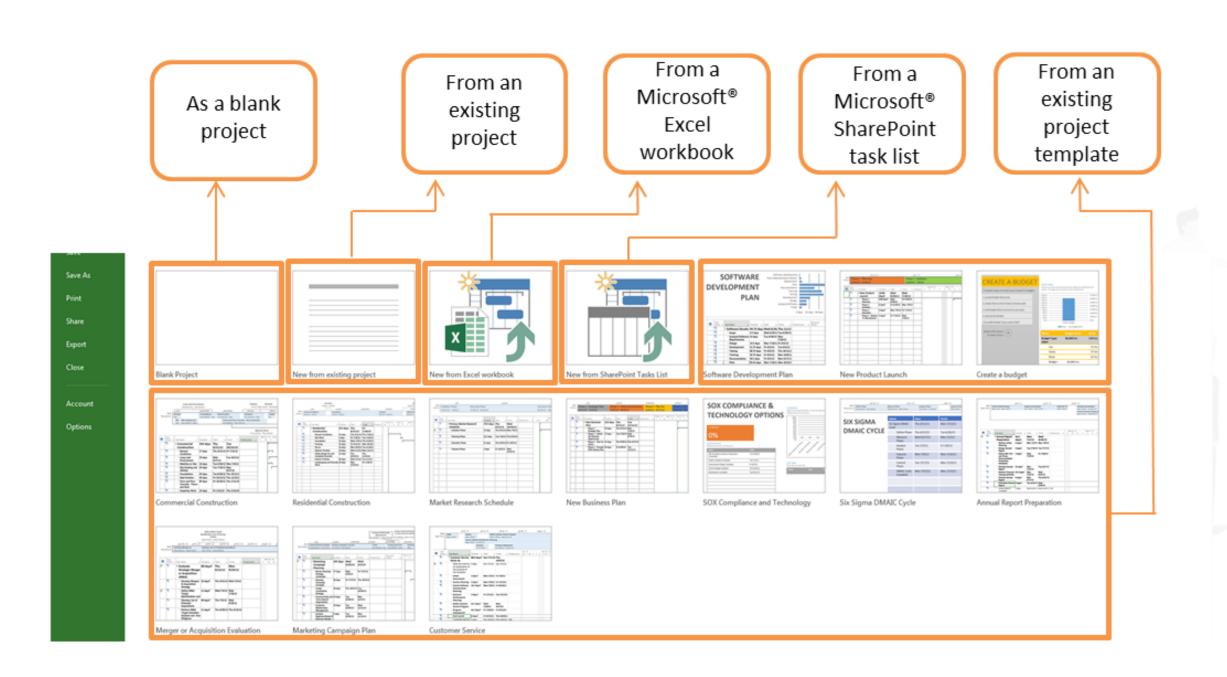
The Project Manager needs to define basic project details at the commencement of a new project.





Microsoft 2013 Interface

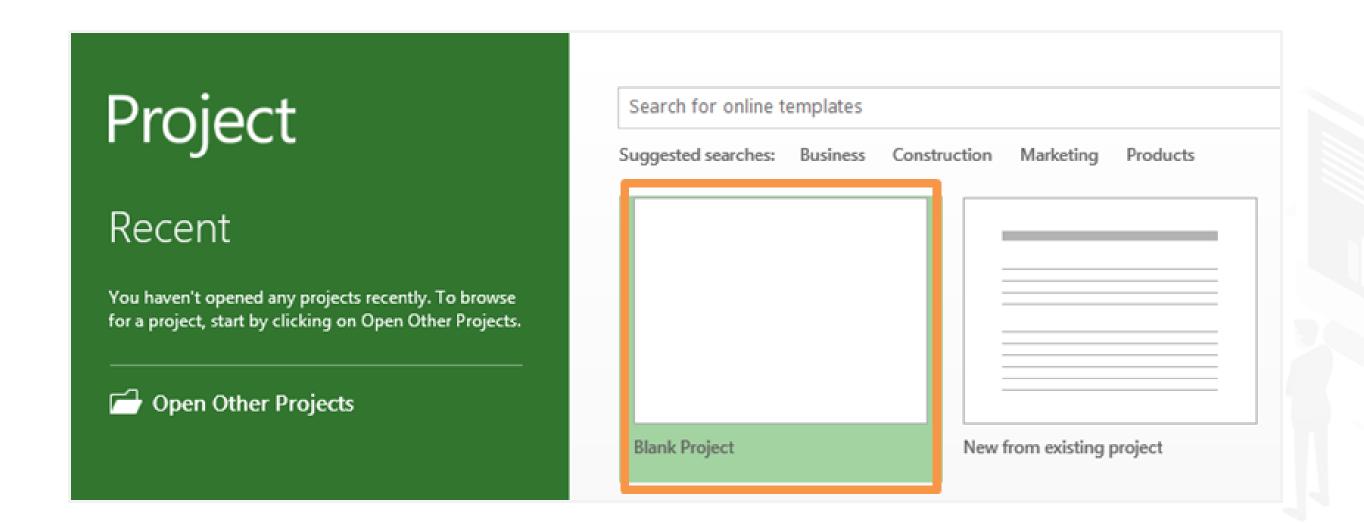
There are different methods to create a project in Microsoft® Project 2013.





Create Project from a Blank Project Template

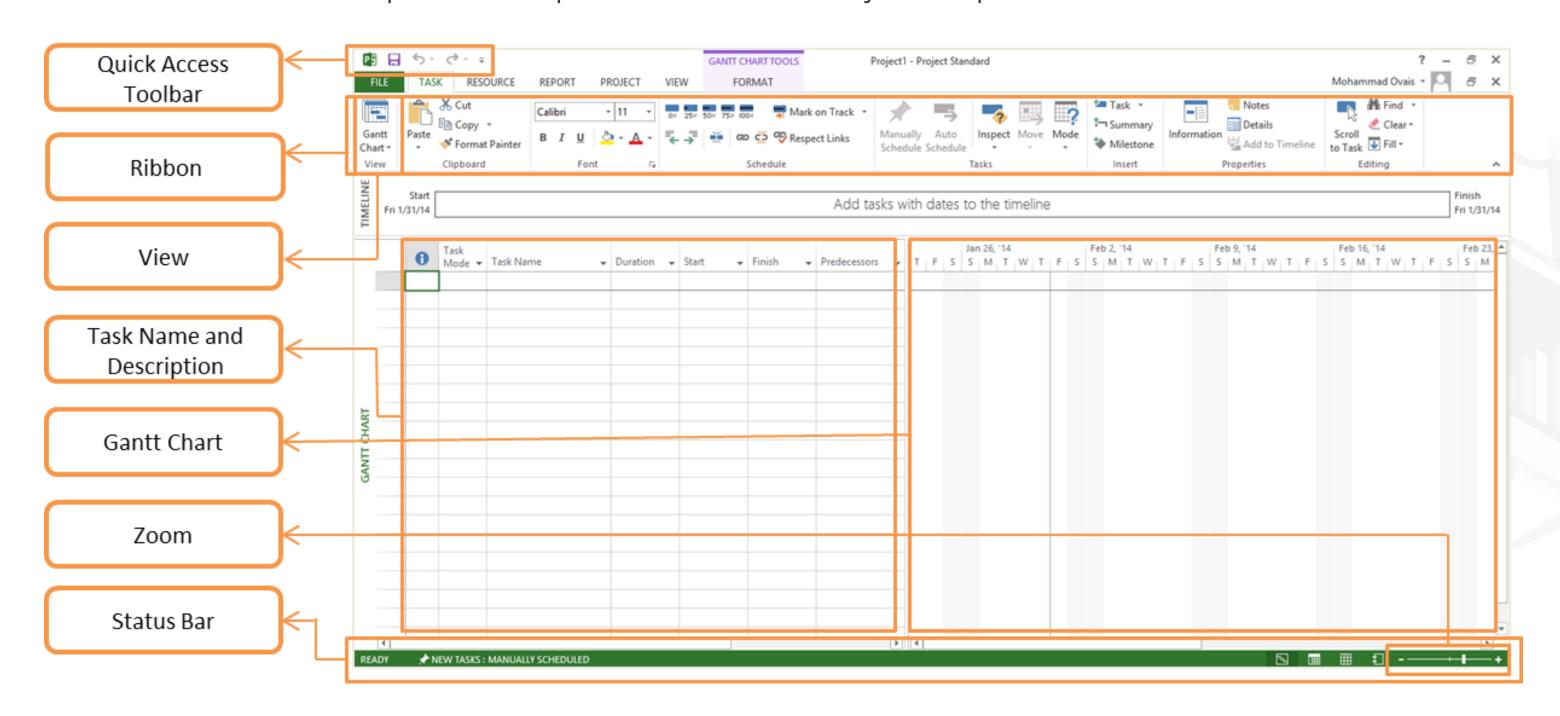
A new project can be initiated in Microsoft® Project 2013 by creating a blank project and then adding project details into it.





Components of a Blank Project Template

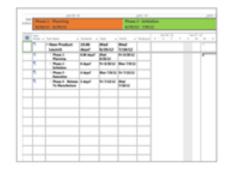
The important components of a Blank Project template are shown here.





Create a Project from an Existing Template

Microsoft® Project 2013 has many pre-installed templates that can be used to create a new project.



New Product Launch

New Product launch



Commercial Construction

Commercial Construction



Residential Construction

Residential Construction



Market Research Schedule

Market Research Schedule



Market Research Schedule

Merger or Acquisition Evaluation

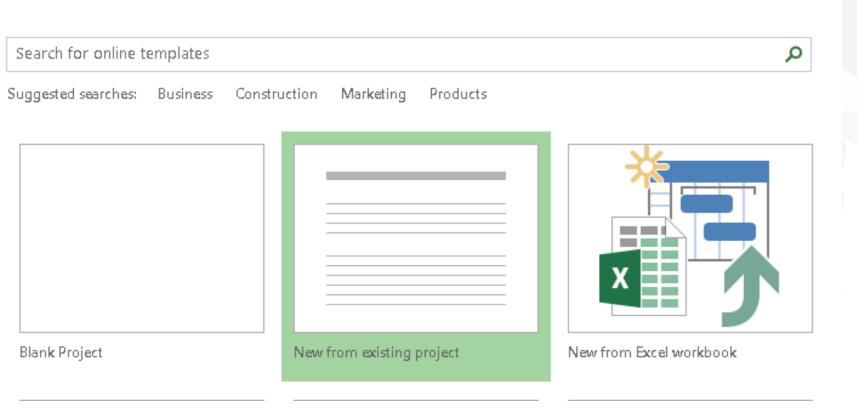


Create a Project from an Existing Project

A new project can be created from an existing project.

- A similar project can be used from the previous history to enter the new project details to it.
- When a project is created this way, the existing project acts as the foundation for the new project.



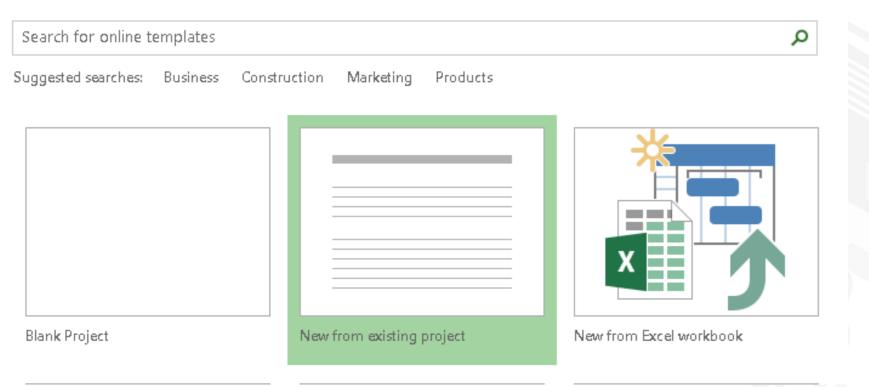




Create Project from Microsoft® Excel Workbook

New project can be created from an Excel workbook.



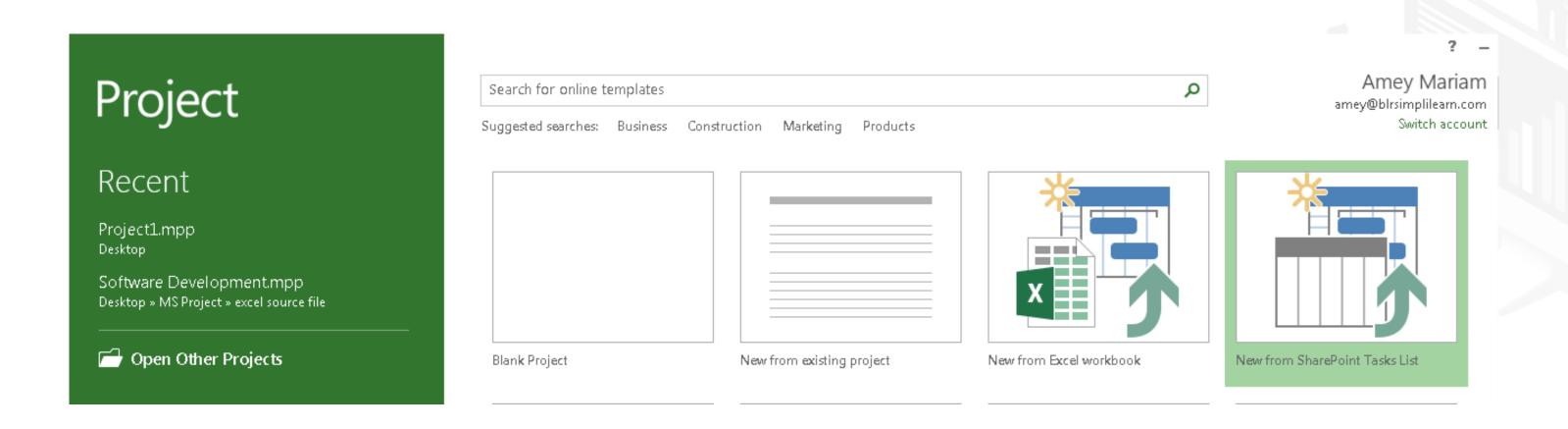




Create Project from Microsoft® SharePoint Task List

If the development team is using SharePoint for a project, the Project Manager can synchronize the task list from SharePoint without using the Project Web App.

- This will allow the team members to view the project schedule on SharePoint.
- Any updates on SharePoint will be reflected in the Microsoft® Project plan.





Three Types of Base Calendar

Standard Calendar

- This calendar is from Monday to Friday.
- This calendar is based on the standard work timings,
 between 8.00 a.m. to 5.00 p.m.

Night Shift Calendar

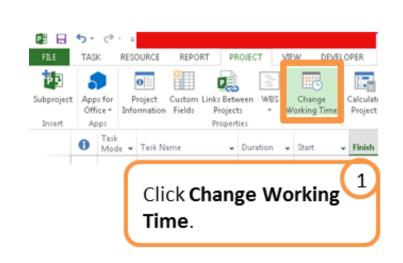
- This calendar is from Monday to Friday.
- This calendar is based on the general night shift work timings, between 11.00 p.m. to 8.00 a.m.

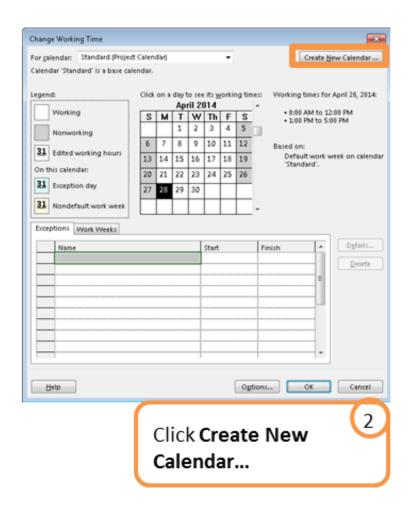
24-Hour Calendar

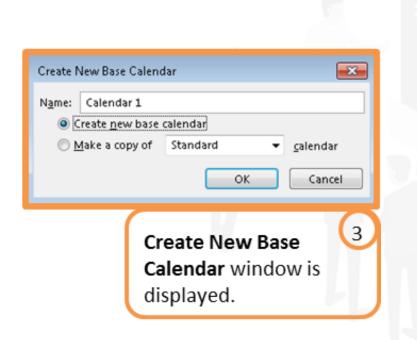
- This calendar is used throughout the week.
- This calendar is based on round-the-clock-work concept.

Create New Base Calendar

When the project team is spread across geographies, with each region having its own set of working and non-working days, the Project Manager can create a new calendar for each geographical region and apply these calendars to the resources and tasks.



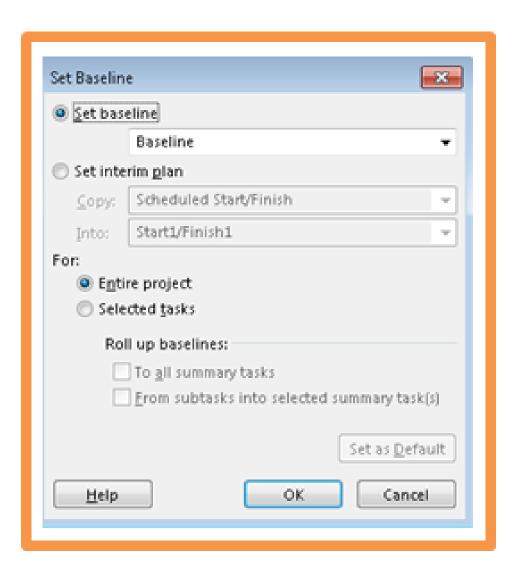




Set Baseline

The Set Baseline command can be used to compare the status of the project with the original plan.

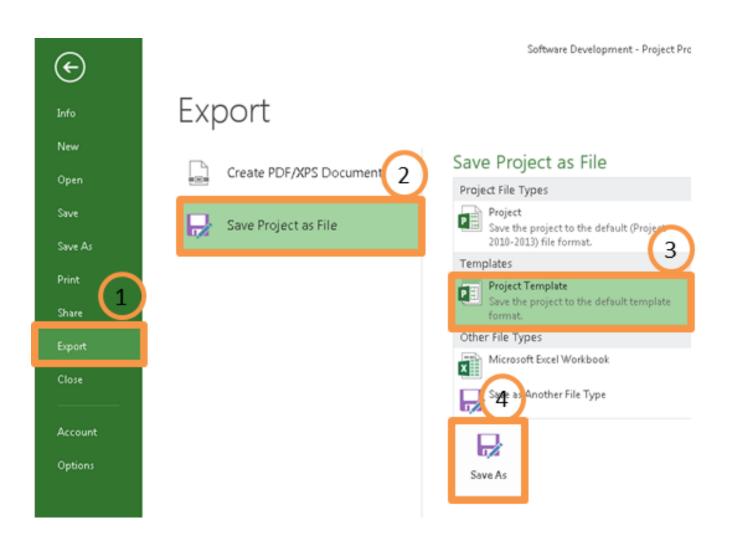
- Baseline records the project plan and the resource allocation.
- Microsoft® Project 2013 permits eleven benchmarks.





Create a Template from a Completed Project

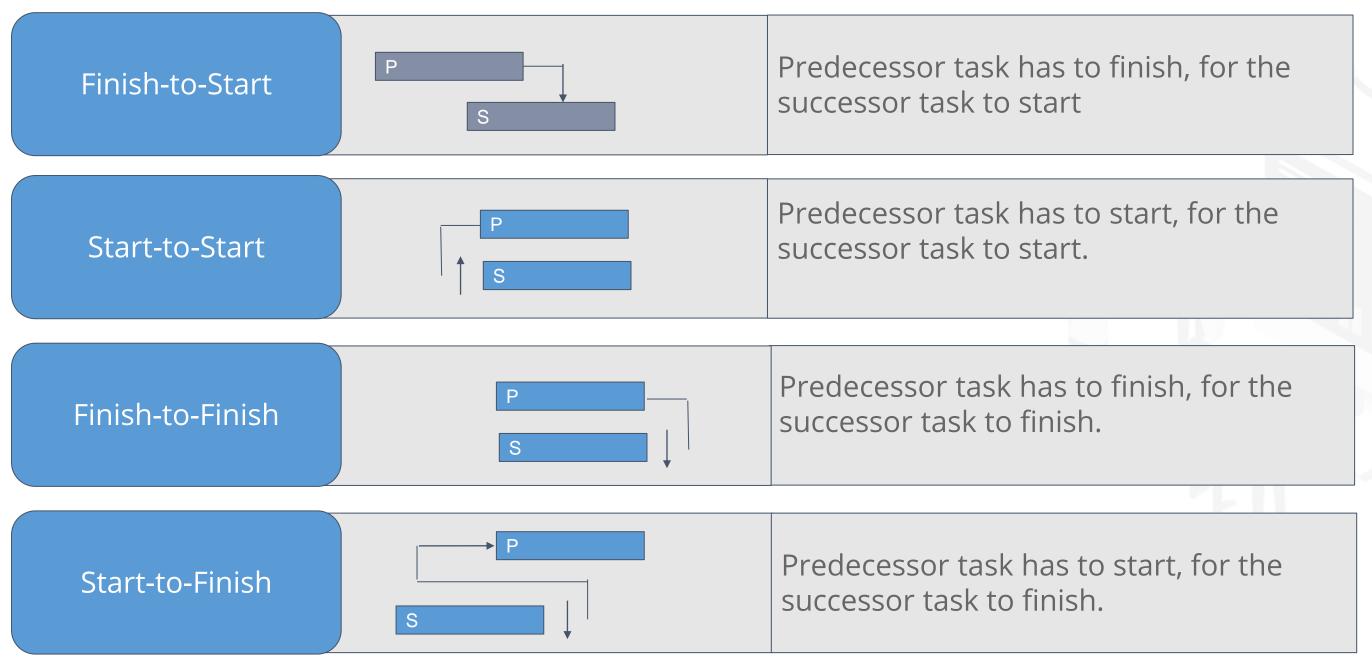
Microsoft® Project 2013 allows you to save the completed project plans as project templates. Strategies from past projects can be shared and can be applied to future projects.





Create Task Dependencies with Links

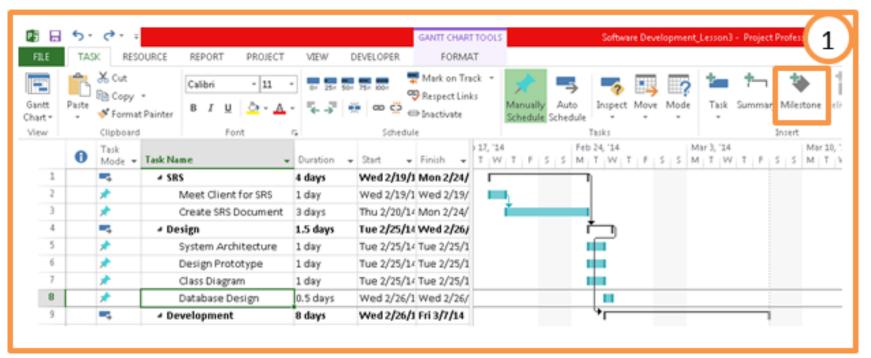
Sometimes the tasks in a project are dependent on other tasks. This dependency can be projected in Microsoft Project 2013 by linking these tasks.



Create Project Milestones

Milestones in a Project are the significant events, either reached within the plan or are dependent on the plan.

- Milestones can be created to highlight the critical points of the project.
- Milestones can be recognized in Microsoft® Project 2013 as tasks that have zero duration.

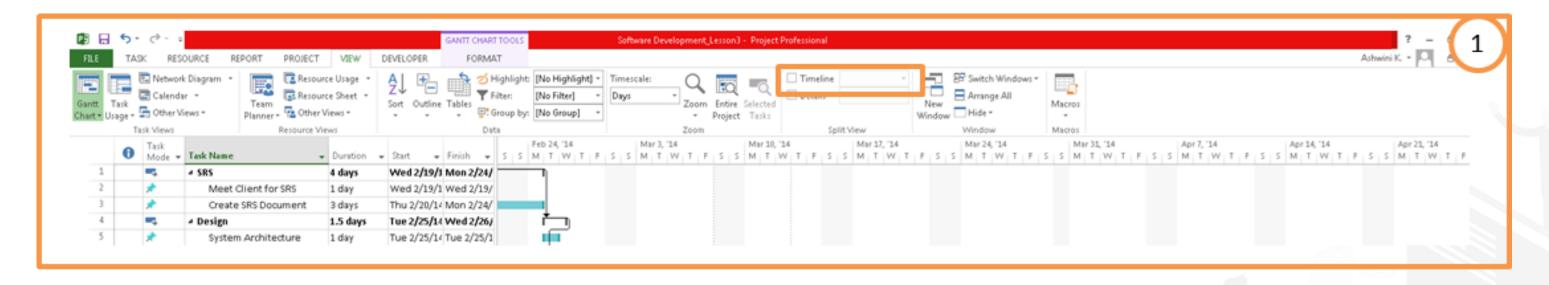


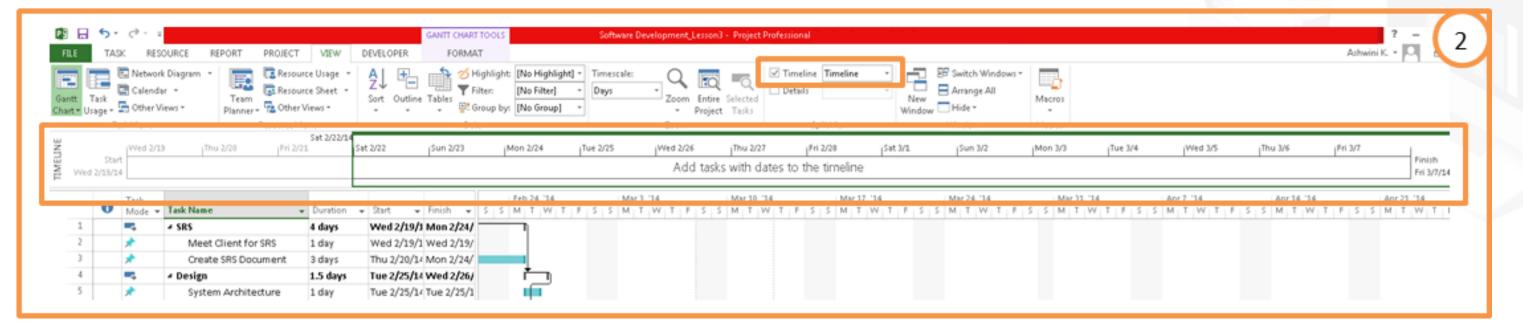
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	*	System Architecture	1 day	Tue 2/25/14 Tue 2/25/1	- I
	*	Design Prototype	1 day	Tue 2/25/14 Tue 2/25/1	
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Timeline View

Timeline View allows a Project Manager to view all the project related information at a glance.

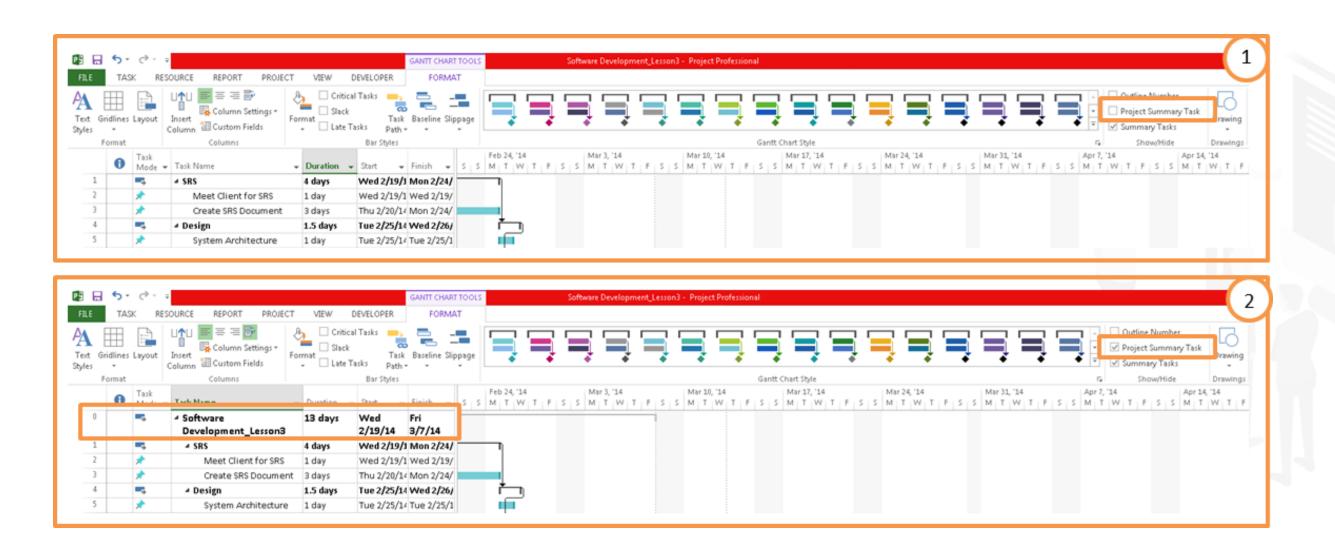






Project Summary

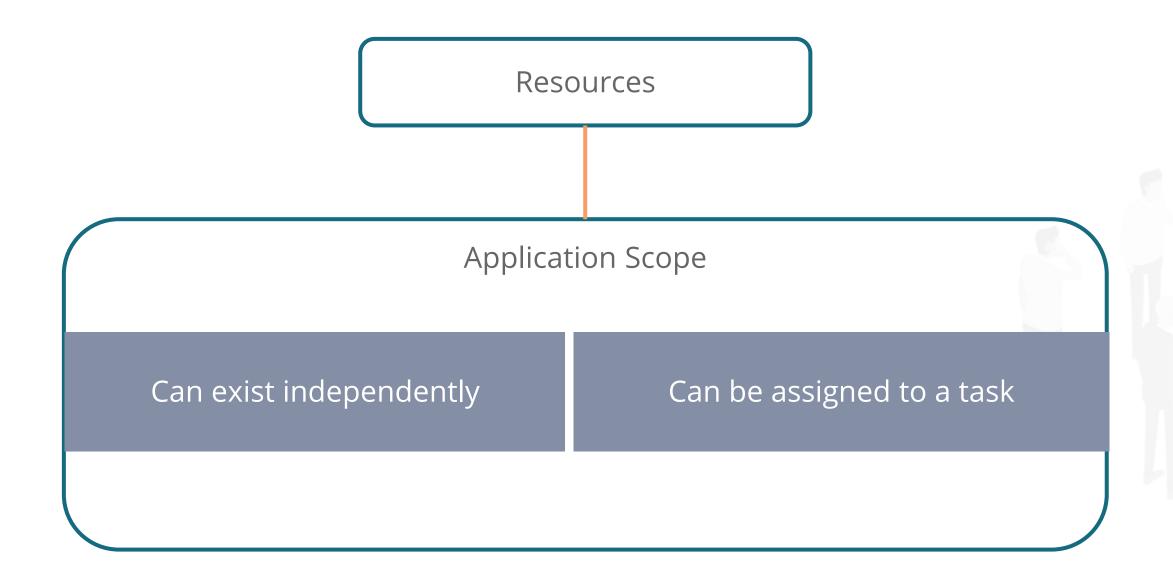
Project Summary summarizes the timeline of the entire project. Project summary is automatically created by Microsoft Project 2013; however, it is hidden by default.





Resources

Resource has a great impact on the timing and cost of a Project.



Responsibility Matrix

Responsibility Matrix describes the contribution of various roles in carrying out tasks for a project.

Responsibility Matrix							
	Responsible Party						
Task	Project Committee	Client POC	Project Manager	Tech Team	Finance Team	Project Coordinator	
Scope analysis	✓	~	✓				
Work breakdown pattern		~	✓	~		✓	
Costing		✓	✓		✓		
Quality parameters		✓		✓		✓	
New requests		✓	✓		✓	✓	
Approval for requests		✓	✓				

Three Types of Resources

Work Resource Type

- Refers to Team Member/Entire
 Team/Equipment
- Is responsible for completing the tasks
- Is measured in unit of time
- Can be tracked on availability and cost

Material Resource Type

- Refers to the consumables
- Can be set up within a project and assign them to a task

Cost Resource Type

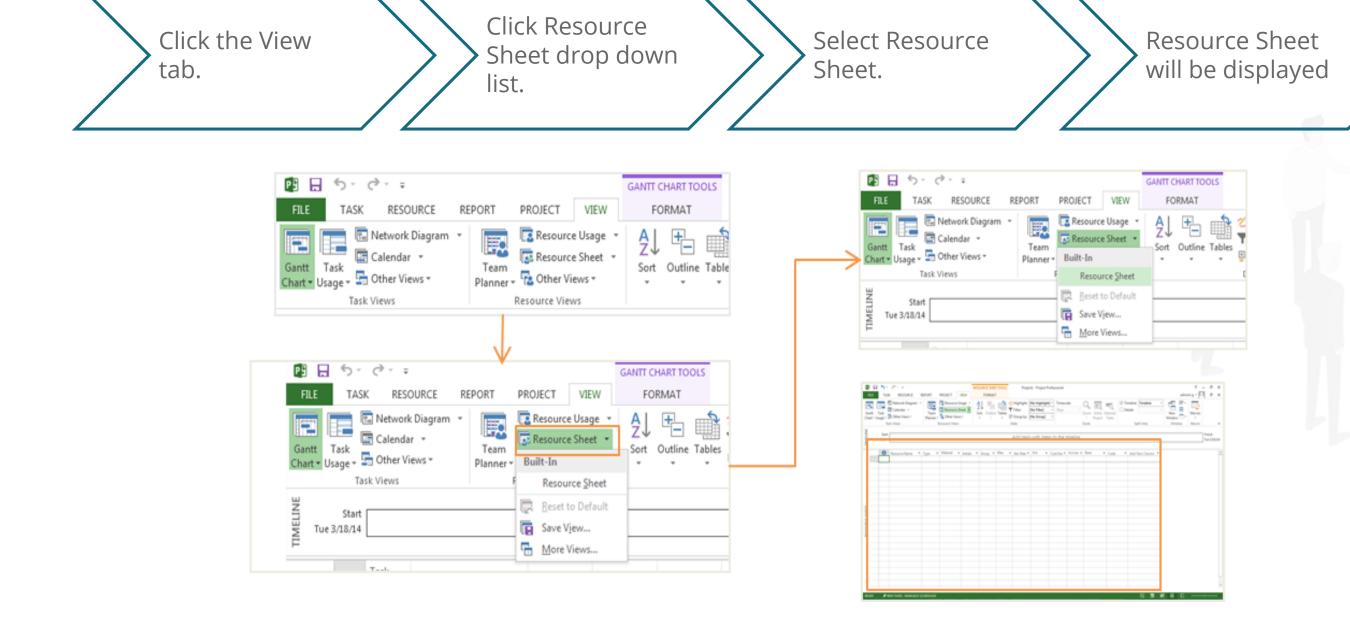
- Identifies the cost associated with a task
- Is used when a task has overhead costs



Add Resources

Adding accurate information of resources is one of the most critical steps of project planning.

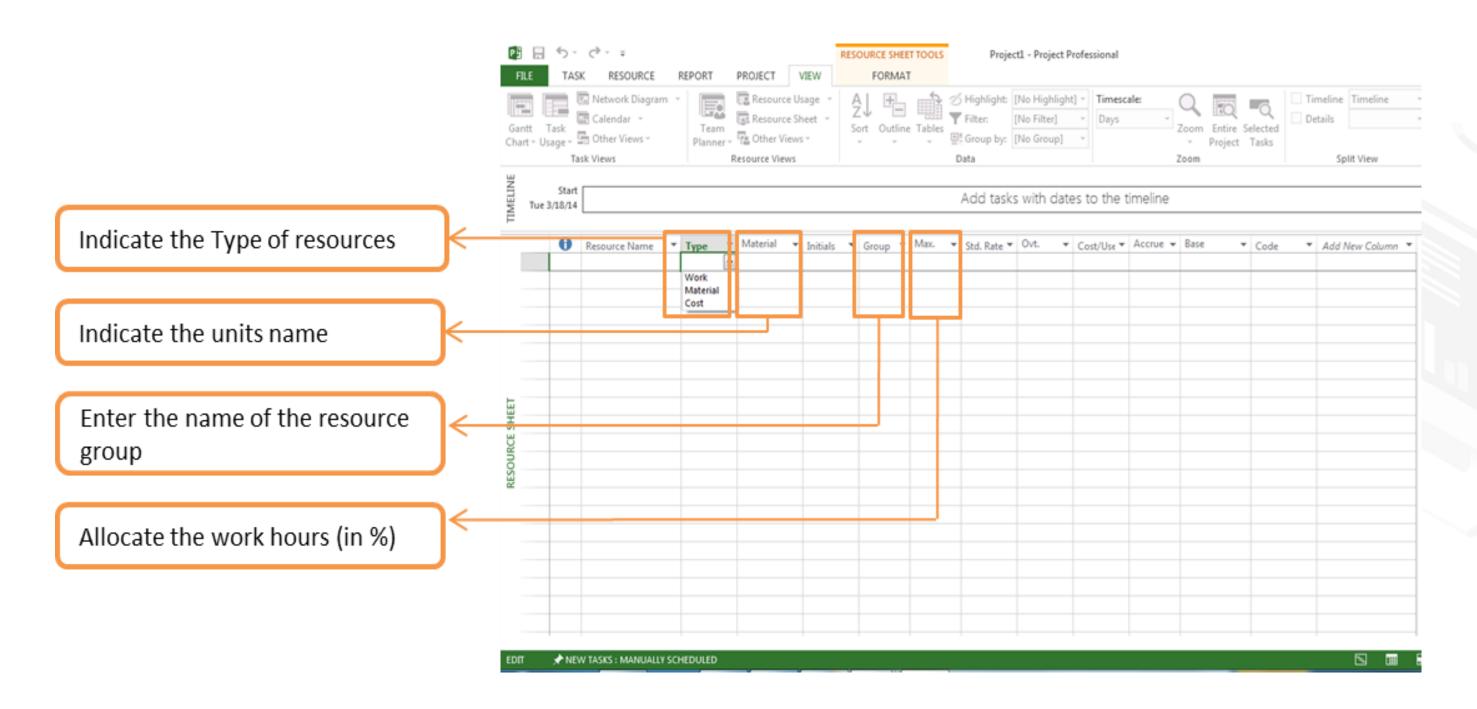
- Project managers can monitor the cost effectively during the course of the project.
- Resource sheet can be used to add or edit the resources.





Add Resources

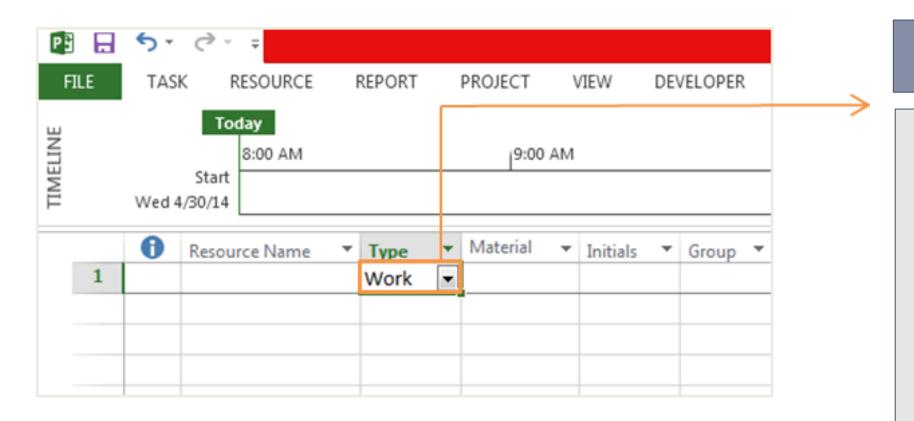
Important components of a Resource Sheet are shown here.





Work Resources

Work resources refer to the people and equipment performing the tasks of a project.



The two important aspects of work resources are:

Availability

 Time when the specific resources can work on the tasks and how much work can the resources perform

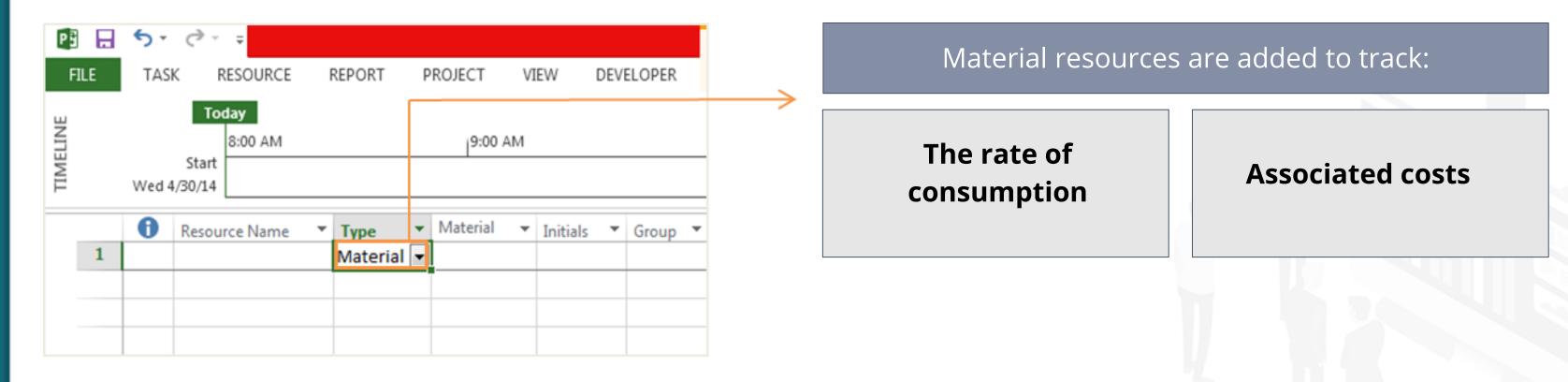
Cost

 Actual cost incurred by the resources working on the project



Material Resources

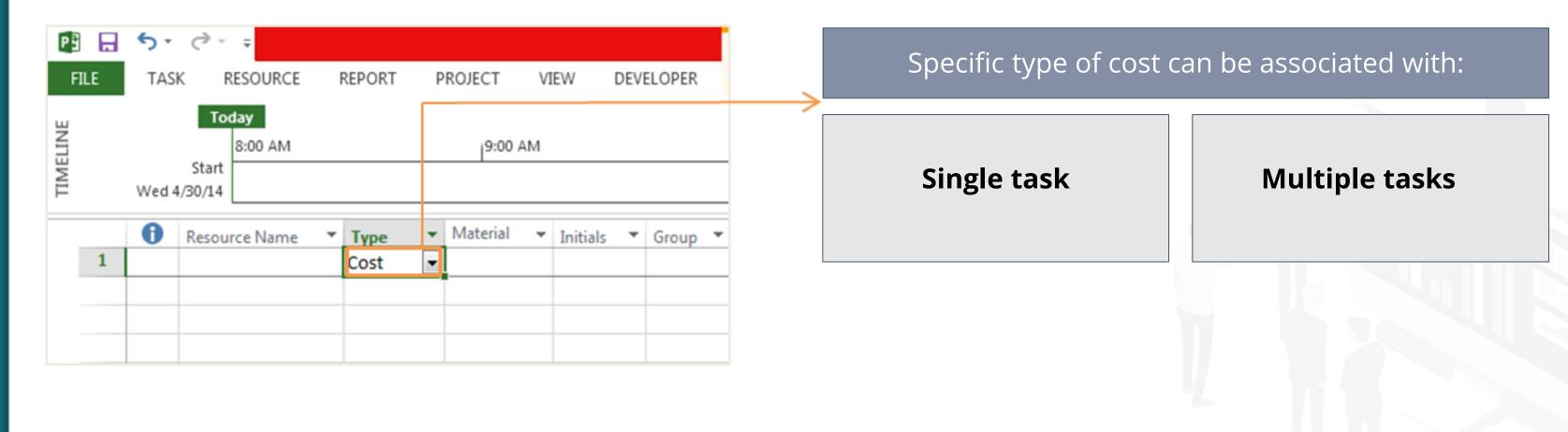
Material resources refer to the consumables used in a Project.





Cost Resources

Cost resources can be used to represent a financial cost associated with a task in a Project.



Generic Resources

Microsoft® Project Professional and Project Web App allow the usage of Generic Resource.

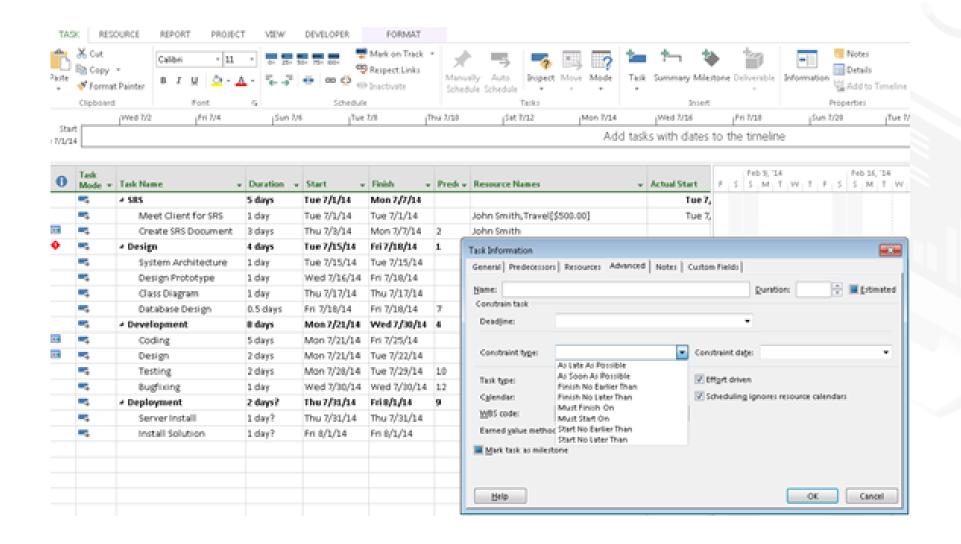
Features of generic resources are:				
They are the categories of workers.	They have to be added in the Project Web App.	They act as placeholders, which can be later allocated to a real resource.		

Adding Date Constraints

If the tasks in Microsoft® Project 2013 is auto-scheduled and you enter the actual duration or start and finish dates, you can notice changes in the scheduled duration, the start and finish dates of the project, as well as the dependent tasks.

A date constraint may be:

- Completely flexible
- Semi-flexible
- Completely inflexible

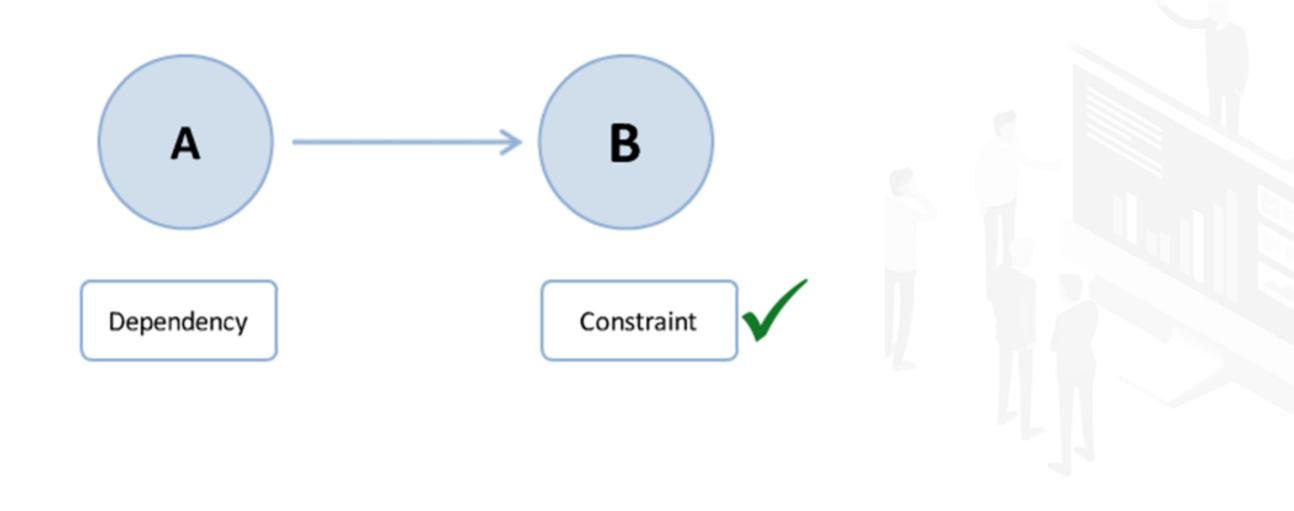




Setting Deadlines

Setting date constraints does not always help in meeting project deadlines.

- Date constraints can lock schedules
- They can lead to clashes as well



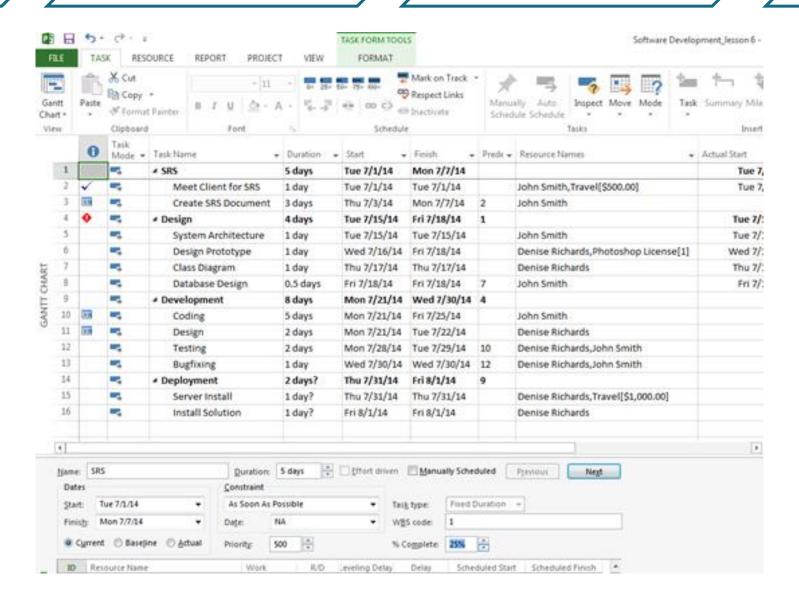
Adding Project Percentage

Project percentage is added to indicate how much of the tasks on the project is complete.

Click the Task tab in Microsoft Project 2013. Click the Details icon. The Task Details Form will appear.

Click any of the buttons - 0%, 25%, 50%, 75%, and 100% from the Task ribbon.

The project percentage is entered in the Task Details Form.

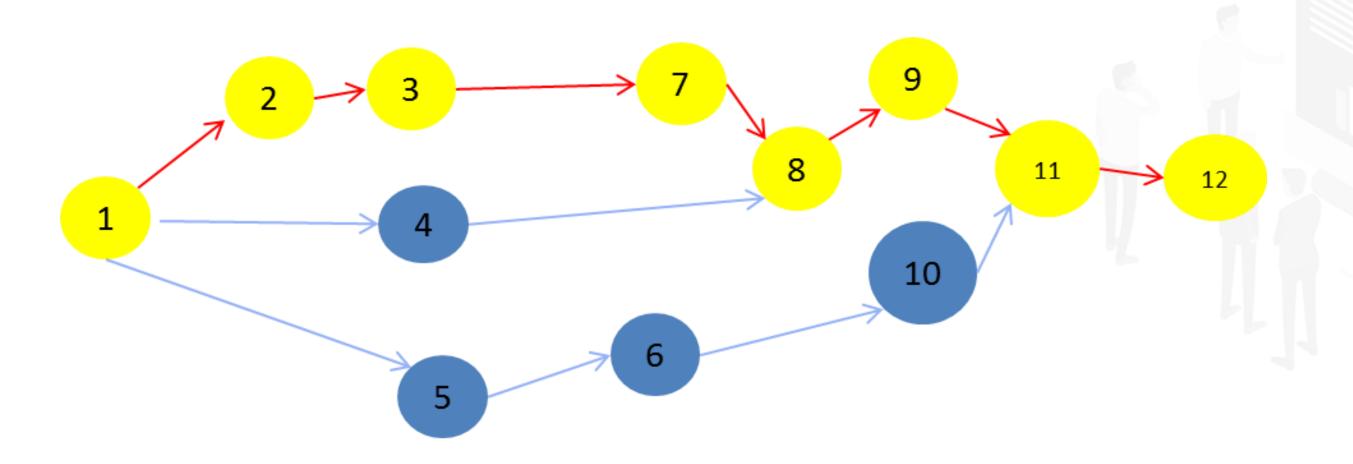




Identifying Critical Path Using MS Project

The Critical Path Method is a common method used in project management, to identify the longest path in a project, to estimate project schedules.

- If any task on the Critical Path is late, the whole project is delayed.
- The Critical Path for a master project, where two or more projects are linked together, can be viewed by treating the sub projects as summary tasks of the master project.



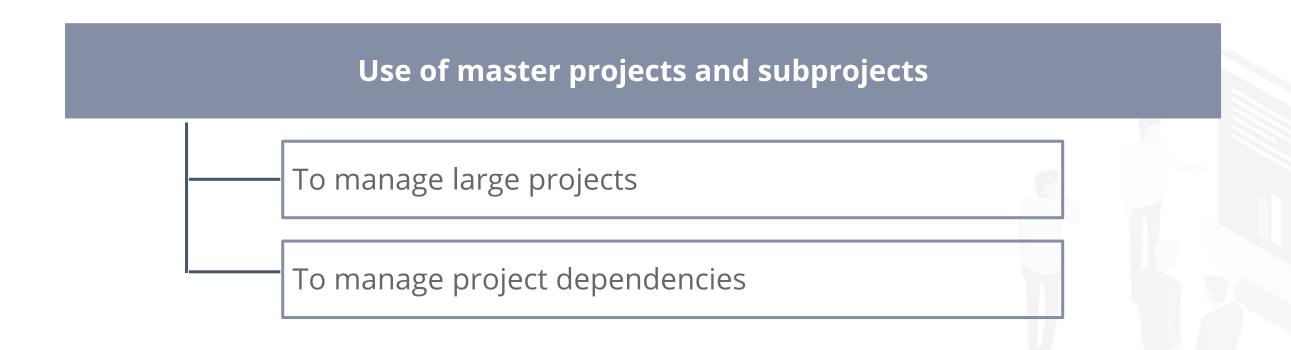
Reports and Dashboards

Microsoft® Project 2013 also has pre-installed reports which can be generated at any time to monitor the health of the project.

Burndown report	To view the work, completed tasks, and pending work
Cost Overview report	To view the planned costs, remaining costs, actual costs, cumulative costs, baseline costs, and percentage of completion
Project Overview report	To view project status, upcoming tasks, and late tasks.
Upcoming Tasks report	To view the work that has been completed in the past week, tasks due for the present week, and upcoming tasks in the next week.
Work Overview report	To review the work status of top-level tasks and their completion percentage.
Resource reports	To create resource-based reports like the Overallocated Resources and the Resources Overview report.

Master Projects and Subprojects

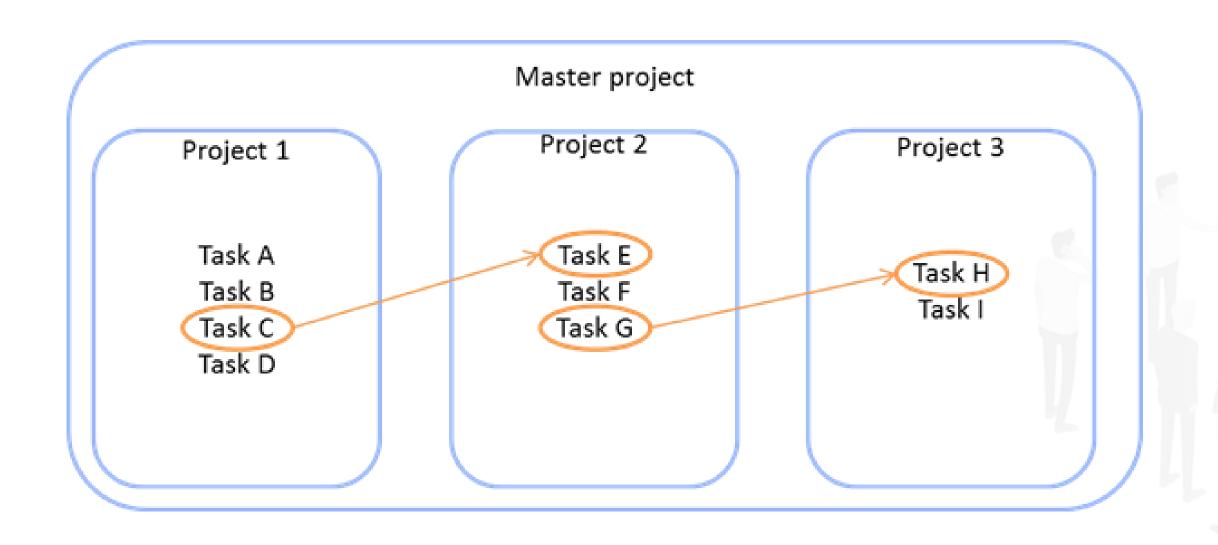
Master projects or consolidated plans and Subprojects or inserted plans are generally used under two circumstances:





Inter-Project Dependencies

Dependencies between tasks of various projects need to be linked.



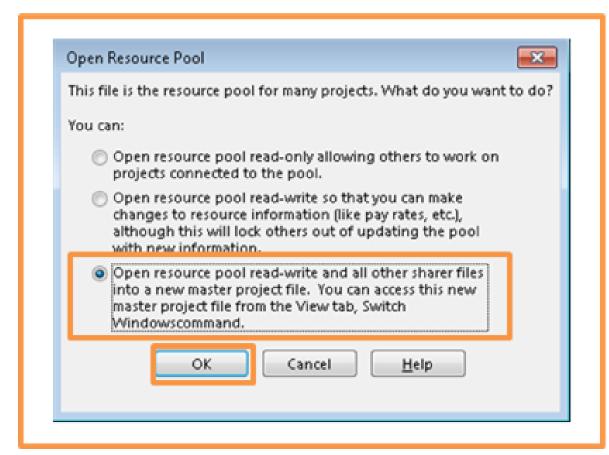
Resolve Resource Conflicts between Shared Projects

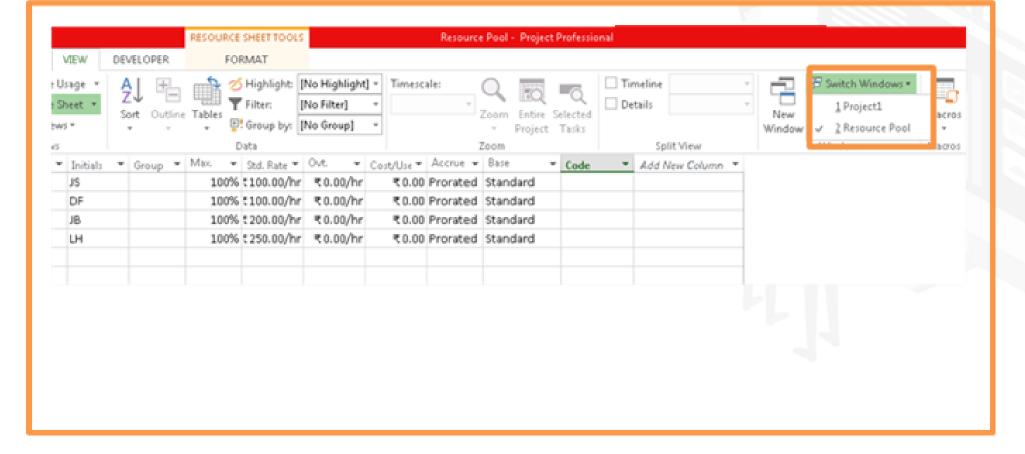
The best method to resolve resource conflict is to create a master project, which includes all projects that share the resource pool as subprojects.

Access read-write version of resource pool.

Use Switch Windows option in **View** tab.

Resolve the conflicts as explained in **Resolve Resource Conflicts** slide.







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Knowledge Check

1

Which of the following provides option to create benchmarks to compare project performance?

- A. Gantt Charts
- B. Project Schedule
- C. Set Baseline
- D. Standard Calendar





1

Which of the following provides option to create benchmarks to compare project performance?

- A. Gantt Charts
- B. Project Schedule
- C. Set Baseline
- D. Standard Calendar



The correct answer is **C**

Set Baseline command is used to create a base point, which acts as a benchmark to compare the project performance.



2

Which of the following calendars is used from 8:00 a.m. to 5:00 p.m.?

- A. Base Calendar
- B. Standard Calendar
- C. Night Shift Calendar
- D. 24-Hour Calendar





2

Which of the following calendars is used from 8:00 a.m. to 5:00 p.m.?

- A. Base Calendar
- B. Standard Calendar
- C. Night Shift Calendar
- D. 24-Hour Calendar



The correct answer is **B**

Standard Calendar is the type of calendar which is used from 8.00 AM to 5.00 PM.



3

Which of the following is a named object within the application scope of a project?

- A. Resource
- B. Management
- C. Task
- D. Cost





3

Which of the following is a named object within the application scope of a project?

- A. Resource
- B. Management
- C. Task
- D. Cost



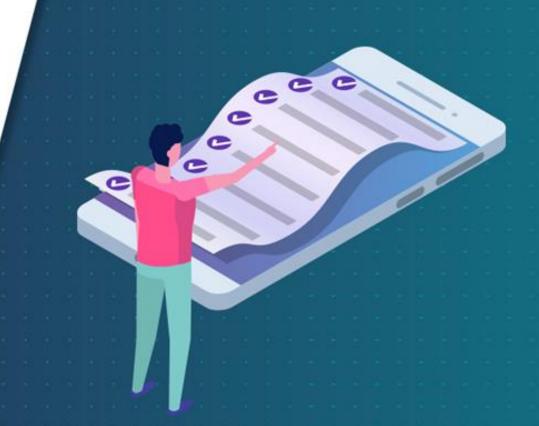
The correct answer is A

Resource is a named object within the application scope that can exist independently or be assigned to a task.



Key Takeaways

- Microsoft Project 2013 is an application that enables you to plan and manage multiple projects effectively.
- A project manager can initiate a project in Microsoft Project
 2013 by using the "Blank Template" option.
- A new project can be initiated in Microsoft Project 2013 by creating a blank project and then adding project details into it.
- A project summary summarizes the timeline of the entire project. The project summary is automatically created by Microsoft Project 2013.



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Key Takeaways

- A resource is a named object within the application scope that can exist independently or be assigned to a task.
- The Critical Path Method is a common method used in project management to identify the longest path in a project and hence estimate project schedules.

