MS Project Professional 2016

Tutorial #3 – Utilization of Resources, a walk through example

CS 587 – Software Project Management

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An example

Assumptions and Constrains

- 1. Every review or inspection "meeting" task shall be carried by 5 engineers including ONE of the author(s)
- 2. Every review or inspection "preparation" task shall be carried by 4 engineers excluding the author(s)
- 3. Any "Rework" task can be executed by one or all authors of the original task
- 4. Project Plan shall be reviewed by at least ONE engineer from every technical area.
- 5. Risk mitigation and contingency plan shall be reviewed by at least ONE engineer from every technical area.
- System Engineers are responsible for creating Analysis and Design artifacts

Consider the following assumptions...

- Allocate resources with 100% utilization
- Allocate resources with 25% utilization

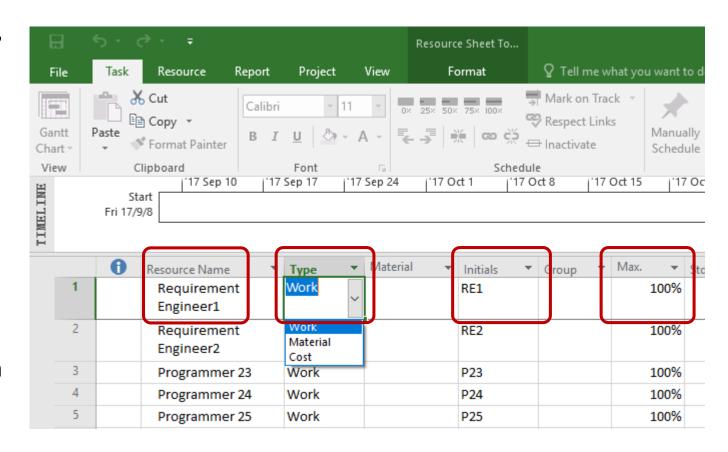


Steps for specifying the resource utilization

- 1. Create the resource
- 2. Assign the resource to the tasks
- 3. Specify the resource utilization (Max units)

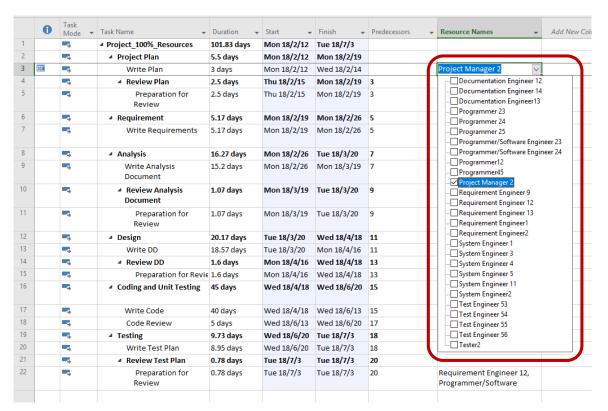
Create the resource

- Go to the "resource sheet"
- Enter the resources
 - Resource Name
 - Type
 - Initials
 - Max units
 - the maximum percentage of units representing the maximum capacity for which a resource is available to accomplish any tasks during the current time period

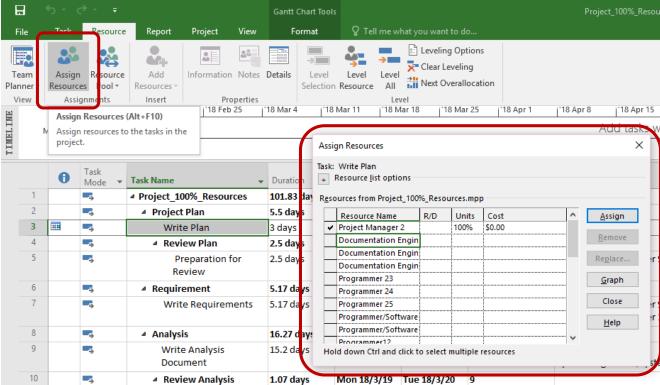


Assign the resource

Using the pull-down list

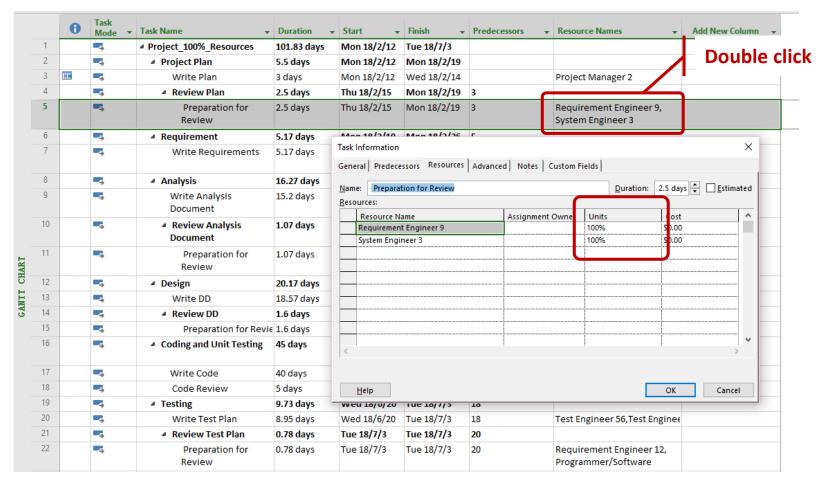


Using assign resources window



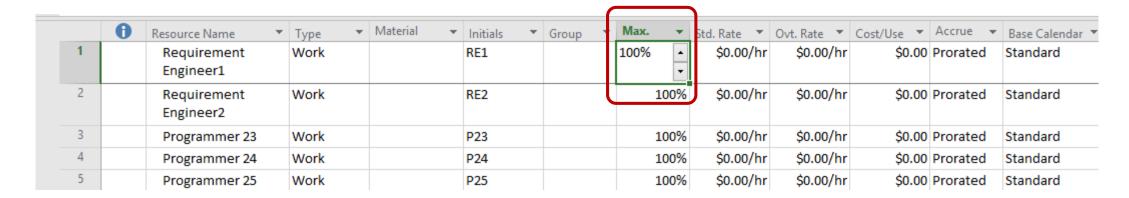
Specify the utilization

Specify the max units in task sheet



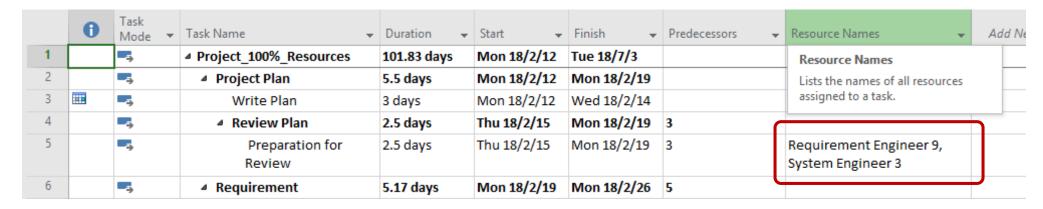
Specify the utilization

Specify the max units in resource sheet



Example

• Max units = 100%



• Max units = 25%

	0	Task Mode ▼	Task Name ▼	Duration +	Start ▼	Finish 🔻	Predecessors •	Resource Names 🔻	Add Ne
1			■ Project_100%_Resources	137.88 days	Mon 18/2/12	Wed 18/8/22			
2			■ Project Plan	5.5 days	Mon 18/2/12	Mon 18/2/19			
3	III		Write Plan	3 days	Mon 18/2/12	Wed 18/2/14		Project Manager 2[25%]	
4		-5	Review Plan	2.5 days	Thu 18/2/15	Mon 18/2/19	3		
5		-5	Preparation for Review	2.5 days	Thu 18/2/15	Mon 18/2/19	3	Requirement Engineer 9[25%], System Engineer 3[25%]	
6			■ Requirement	10.33 days	Mon 18/2/19	Mon 18/3/5	5		

Example

• Max units = 100%

	0	Resource Name	▼ Type ▼	Material ▼	Initials 🔻	Group '	Max. ▼	Std. Rate 🔻	Ovt. Rate	Cost/Use ▼	Accrue ▼	Base Calendar 🔻	Со
1		Requirement Engineer1	Work		RE1		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
2		Requirement Engineer2	Work		RE2		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
3		Programmer 23	Work		P23		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
4		Programmer 24	Work		P24		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
5		Programmer 25	Work		P25		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
6		Programmer45	Work		P45		100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	

• Max units = 25%

	0	Resource Name	Туре	-	Material	-	Initials	T	Group 3	Ma	G 7	-	Std. Rate ▼	Ovt. Rate	Cost/Use ▼	Accrue	+	Base Calendar 🔻	Coc
1		Requirement	Work				RE1				259	%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	1 5	Standard	
		Engineer1																	
2		Requirement Engineer2	Work				RE2				259	%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	1 5	Standard	
2													40.00/1	40.00/1	4		٠,	-	-
3		Programmer 23	Work				P23				259	%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	1 3	Standard	
4		Programmer 24	Work				P24				259	%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	1 5	Standard	
5		Programmer 25	Work				P25				259	%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	1 5	Standard	
6		Programmer45	Work				P45				259	%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	1 5	Standard	

Questions?