

ID	Task Mode	Task Name	Duration	Start	Finish	Pred	Resource Names	'11							Feb 20, '11		
								T	W	T	F	S	S	M			
1		MSD II	63 days	Wed 2/16/11	Fri 5/13/11		P11008										
2		Detailed Design Review Action Items	25 days	Wed 2/16/11	Tue 3/22/11												
3		Finalize BOM for all Systems	10 days	Wed 2/16/11	Tue 3/1/11		Ian,Tyler										
4		Place orders for identified components	3 days	Tue 2/22/11	Thu 2/24/11		Matt										
5		Create Detailed Design Drawings including tolerances for components needing to be Manufactured.	17 days	Wed 2/16/11	Thu 3/10/11		Tyler,Mark										
6		Finalize Test Plan	14 days	Wed 2/16/11	Mon 3/7/11												
7		Review Tests and implement updates	13 days	Thu 2/17/11	Mon 3/7/11		Matt										
8		Fabrication of Appropriate Pieces	20 days	Mon 3/7/11	Fri 4/1/11												
9		Obtain Critical Raw Materials	7 days	Fri 3/11/11	Mon 3/21/11												
10		Construct Base From Extruded Aluminum	4 days	Wed 3/16/11	Mon 3/21/11		Tyler										
11		Fabricated Side Supports	5 days	Wed 3/16/11	Tue 3/22/11		Tyler										
12		Blade Mount Fabrication	5 days	Mon 3/14/11	Fri 3/18/11		Mark										
13		Straw Base Plate Fabrication (Automated)	5 days	Mon 3/14/11	Fri 3/18/11		Mark										
14		Length Adjustment Components	3 days	Mon 3/14/11	Wed 3/16/11		Tyler										
15		Plexiglas Safety Guard	3 days	Mon 3/21/11	Wed 3/23/11		Matt										
16		Plastic Straw Guide	1 day	Mon 3/21/11	Mon 3/21/11		Mark,Matt										
17		Cartridge Construction	5 days	Mon 3/28/11	Fri 4/1/11		Mark,Matt										
18		Vacuum Attachment Rapid Prototyped	4 days	Mon 3/28/11	Thu 3/31/11		Tyler										
19		Address Process Improvement Opportunities	20 days	Mon 3/14/11	Fri 4/8/11												
20		Implement 5S Ideas	5 days	Mon 3/14/11	Fri 3/18/11		Matt										
21		Pallet/ Box Visual Kanban	9 days	Tue 3/29/11	Fri 4/8/11		Matt										
22		Warehouse Organization	9 days	Tue 3/29/11	Fri 4/8/11		Matt										
23		System Assembly	16 days	Mon 3/7/11	Mon 3/28/11												

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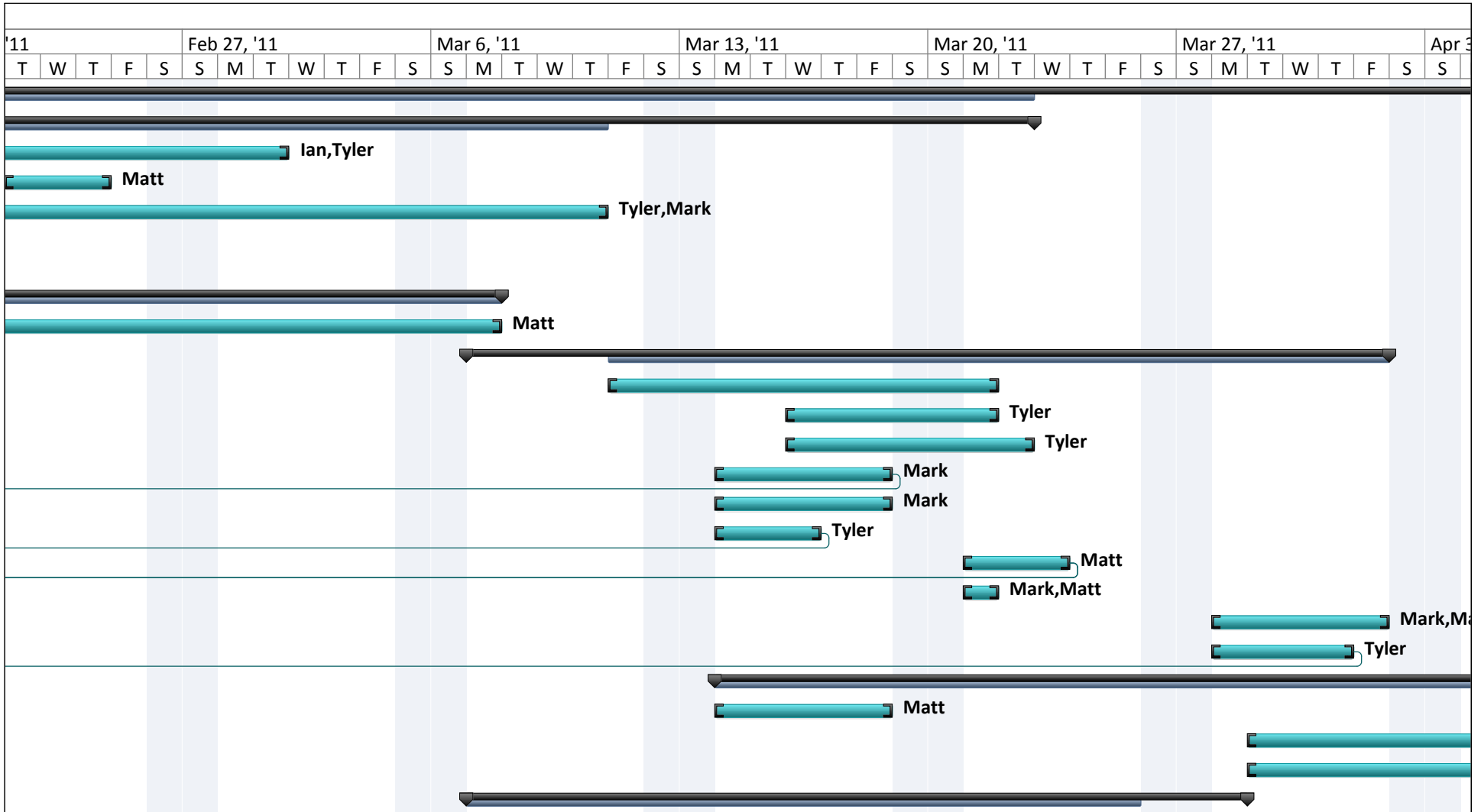
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								24		Pneumatic System Including 2 Handed Controller	5 days	Mon 3/7/11	Fri 3/11/11		Ian	
25		Microcontroller Programming	7 days	Mon 3/7/11	Tue 3/15/11		Ian,Mark									
26		Blade Mounting Plate and Carriage Assembly	2 days	Mon 3/21/11	Tue 3/22/11	12	Tyler,Mark									
27		Length Adjustment System Construction	2 days	Fri 3/18/11	Mon 3/21/11	14	Tyler									
28		Safety System Construction	2 days	Thu 3/24/11	Fri 3/25/11	15	Matt Tyler									
29		Construction of System Interfaces	16 days	Wed 3/16/11	Wed 4/6/11											
30		Blade and Mount Options	1 day	Wed 3/23/11	Wed 3/23/11	26	Mark									
31		Electrical Power Interface	2 days	Wed 3/16/11	Thu 3/17/11	25	Mark,Ian									
32		Pneumatic Interface	6 days	Mon 3/14/11	Mon 3/21/11	24	Ian									
33		Vacuum / Material Removal Interface	4 days	Fri 4/1/11	Wed 4/6/11	18	Tyler									
34		Safety Interface	1 day?	Thu 3/24/11	Thu 3/24/11	15,3	Ian,Tyler									
35		Testing of Individual Systems	19 days	Mon 3/14/11	Thu 4/7/11											
36		Preliminary Pneumatic Tests	2 days	Mon 3/14/11	Tue 3/15/11	24	Ian,Matt									
37		Blade Choice Test	3 days	Wed 3/23/11	Fri 3/25/11	26	Mark,Matt									
38		Safety Guard & Interlock Test	1 day	Fri 3/25/11	Fri 3/25/11	25,2	Ian,Tyler									
39		Vacuum Material Removal Test	1 day?	Thu 4/7/11	Thu 4/7/11	33	Tyler									
40		Testing of Completed Model	7 days	Thu 4/7/11	Fri 4/15/11	35										
41		Length and Capability Test	1 day	Thu 4/7/11	Thu 4/7/11		Matt									
42		Straw Cut Quality Test	1 day	Thu 4/7/11	Thu 4/7/11		Matt									
43		Overall Functionality Test	1 day	Mon 4/11/11	Mon 4/11/11		P11008									
44		Field Demo/Customer Demo & Hand off to Arc Wor	10 days	Mon 4/18/11	Fri 4/29/11		P11008									
45		Demonstrate full Functionality in Lab at RIT	3 days	Mon 4/18/11	Wed 4/20/11											
46		Complete all tests to a satisfactory result	1 day	Thu 4/21/11	Thu 4/21/11	45										
47		Setup Device at Arc Works	2 days	Fri 4/22/11	Sun 4/24/11	46										

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								48		Complete Testing at Arc Works and perform Observations throughout full day	1 day	Fri 4/22/11	Mon 4/25/11	47			
49		Communicate with Arc works Frequently during first Weeks of Implementation	5 days	Mon 4/25/11	Fri 4/29/11	48											
50		Project Completion Tasks	15 days	Mon 4/25/11	Fri 5/13/11		P11008										
51		Technical Paper	15 days	Mon 4/25/11	Fri 5/13/11												
52		Poster	10 days	Mon 4/25/11	Sun 5/8/11												
53		Project Review	1 day	Fri 5/13/11	Fri 5/13/11												
54		Finalize Edge Page	8 days	Wed 5/4/11	Fri 5/13/11												
55																	
56		Group Members not Available	50 days	Mon 3/7/11	Fri 5/13/11												
57		Tyler Away	8 days	Thu 3/24/11	Sun 4/3/11		Tyler										
58		Matt Away	2 days	Sat 3/19/11	Mon 3/21/11		Matt										
59		Matt Away	2 days	Fri 3/25/11	Mon 3/28/11		Matt										
60		Ian Away	2 days	Sun 4/17/11	Mon 4/18/11		Ian										
61		Mark Away	2 days	Sat 4/23/11	Mon 4/25/11		Mark										

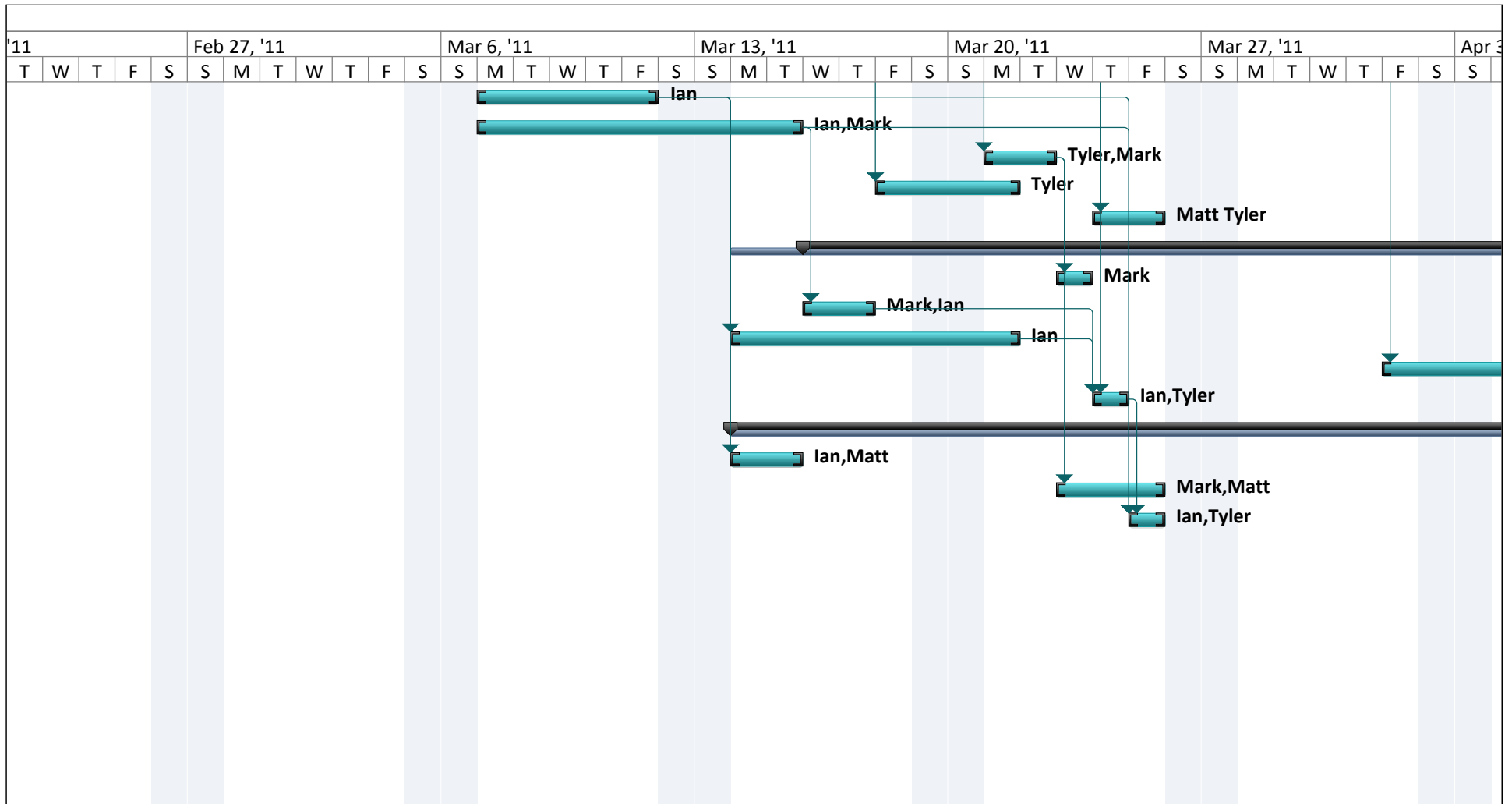
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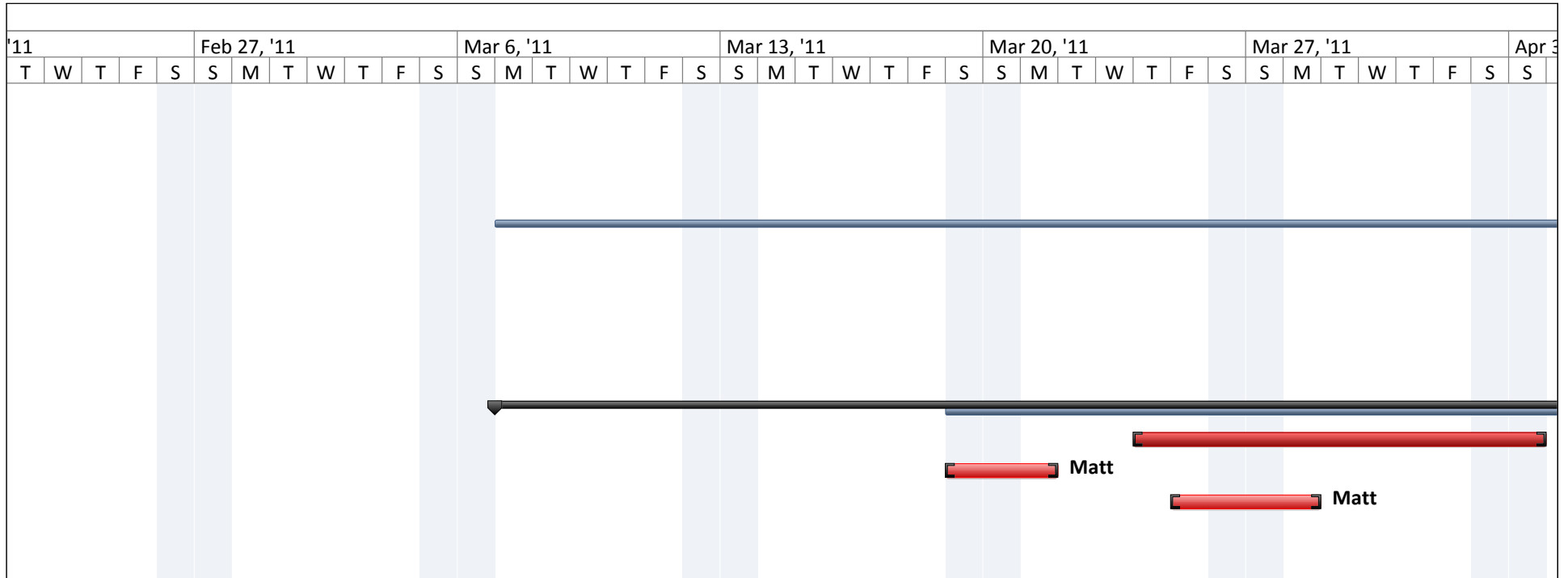


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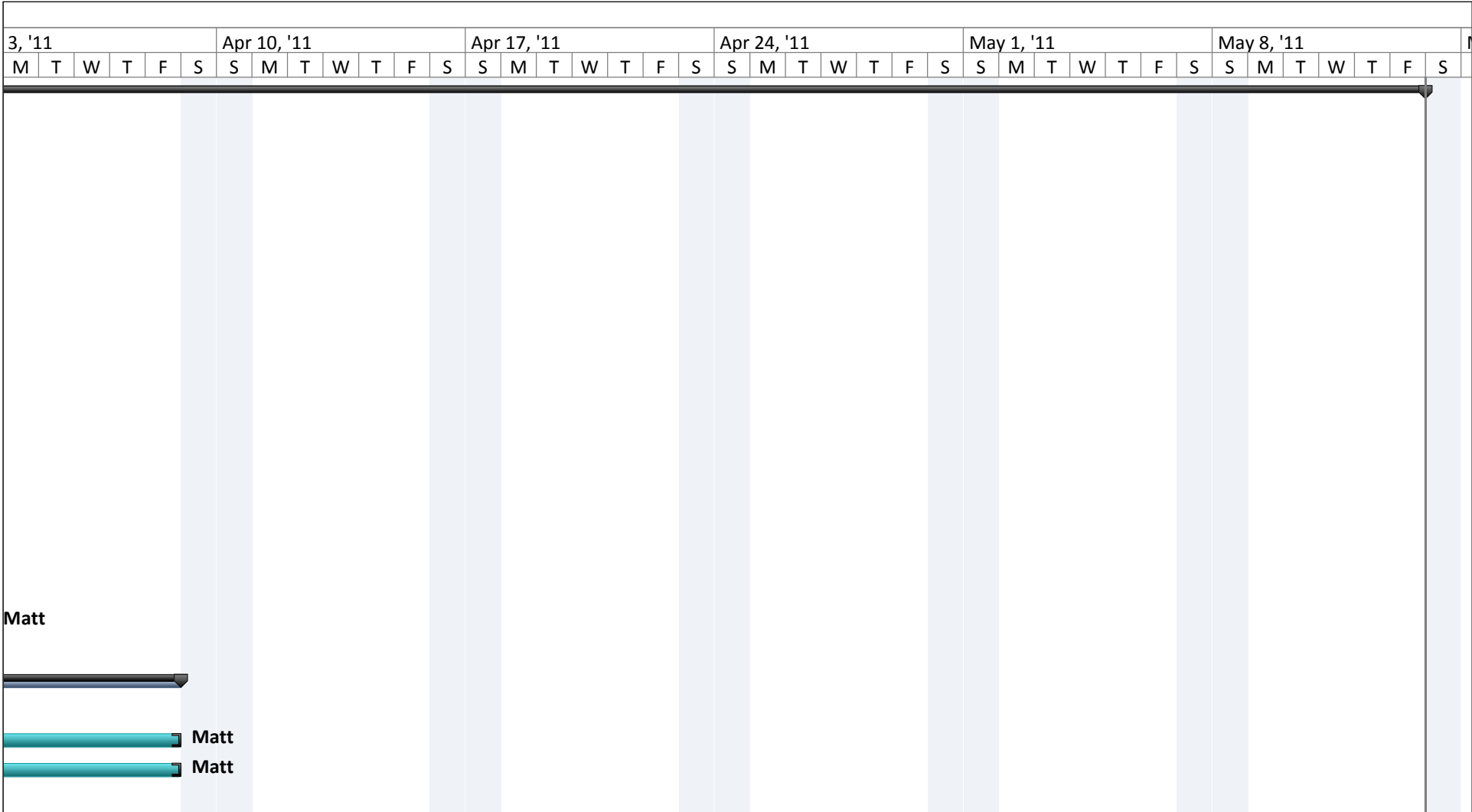


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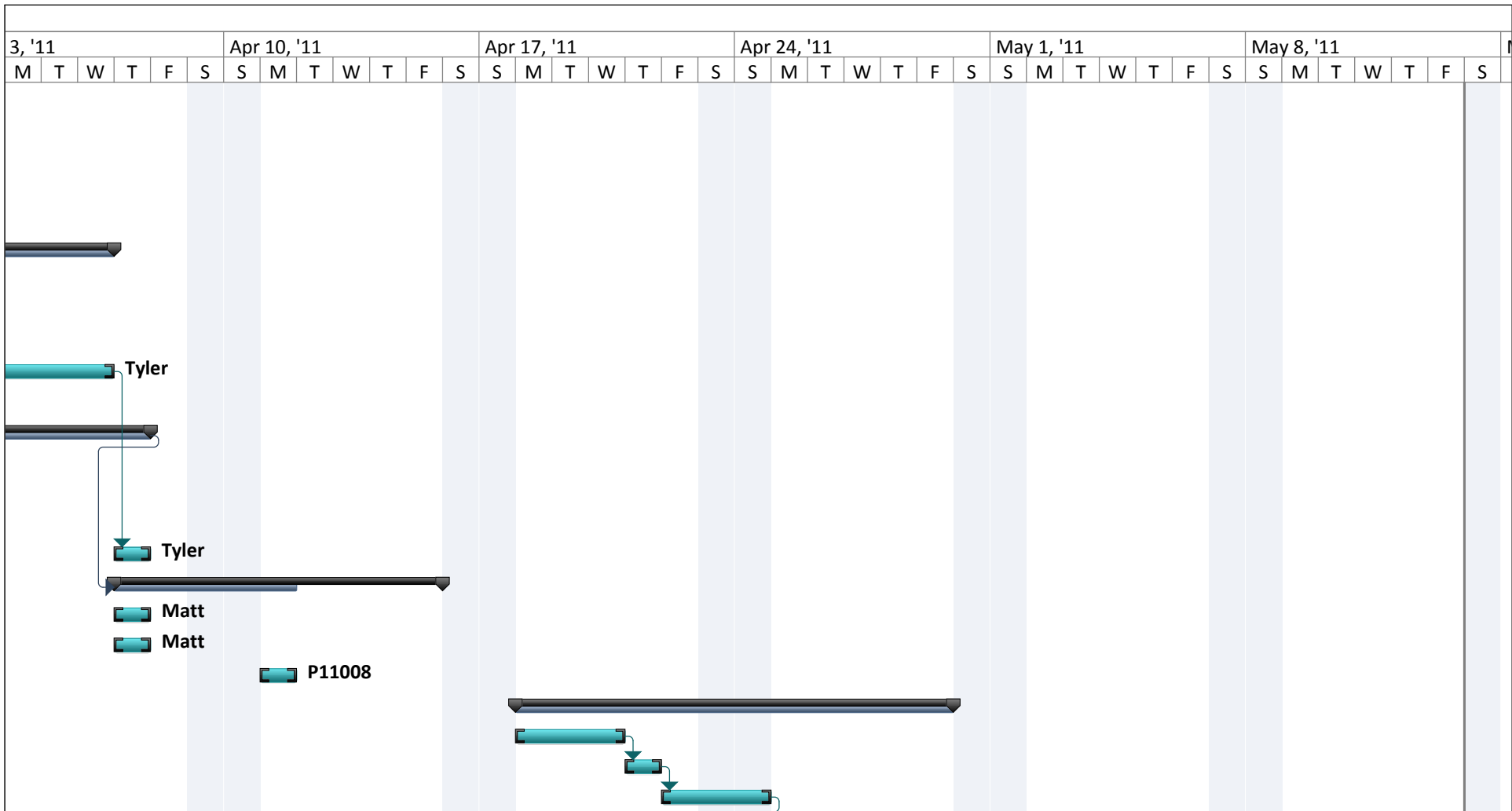
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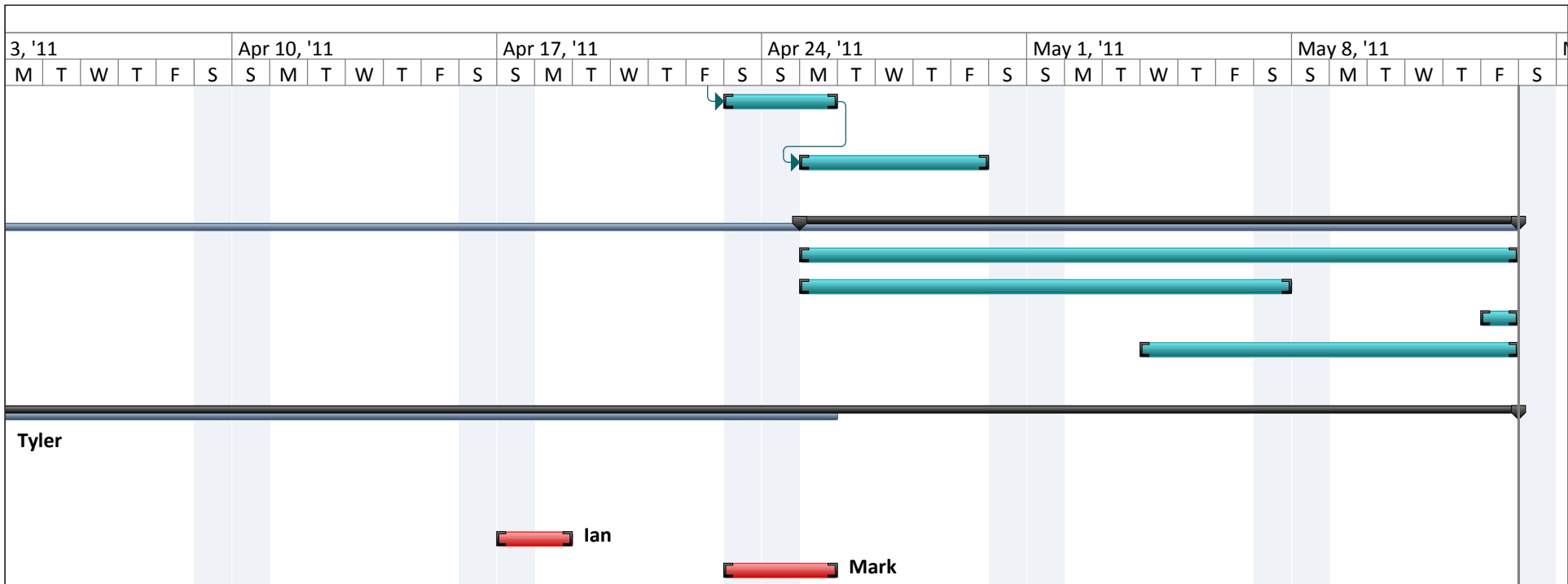
Matt

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