

Project Management Plan Updates

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PMGT 690














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Example of project management plan updates. The highlighted areas are approved changes that have been incorporated into the scope of work and WBS by compressing the schedule.

		Task Mode ▾	Name ▾	Leveling Delay ▾	Duration ▾	Start ▾	Finish ▾	Predecessors ▾	Successors ▾
0			▲ Bike Components PGM 614 4.6 Compressed Schedule Updated 6-25-15	0 edays	42.06 days	Thu 6/18/15	Sat 8/15/15		
1			Widget Management Syste	0 edays	24 hrs	Thu 6/18/15	Mon 6/22/15		2
2			Initiation	0 edays	8 hrs	Tue 6/23/15	Tue 6/23/15	1	3
3			Evaluations & Recommendations	0 edays	8 hrs	Wed 6/24/15	Wed 6/24/15	2	4
4			Develop Project Charter	0 edays	8 hrs	Thu 6/25/15	Thu 6/25/15	3	5
5			Deliverable: Submit Project Charter	0 edays	0 hrs	Thu 6/25/15	Thu 6/25/15	4	6
6			Project Sponsor Reviews Project Charter	0 edays	16 hrs	Fri 6/26/15	Mon 6/29/15	5	7
7			Project Charter Signed/Approved	0 edays	8 hrs	Tue 6/30/15	Tue 6/30/15	6	8,9
8			Planning	0 edays	40 hrs	Wed 7/1/15	Tue 7/7/15	7	10
9			Create Preliminary Scope Statement	0 edays	8 hrs	Wed 7/1/15	Wed 7/1/15	7	
10			Determine Project Team	0 edays	16 hrs	Wed 7/8/15	Thu 7/9/15	8	11,12,13
11			Project Team Kickoff Meet	0 edays	8 hrs	Fri 7/10/15	Fri 7/10/15	10	
12			Develop Project Plan	0 edays	80 hrs	Fri 7/10/15	Thu 7/23/15	10	
13			Submit Project Plan	0 edays	8 hrs	Fri 7/10/15	Fri 7/10/15	10	14
14			Milestone: Project Plan Approval	0 edays	0 hrs	Fri 7/10/15	Fri 7/10/15	13	16,17
15			Execution	0 edays	40 hrs	Mon 7/27/15	Fri 7/31/15	17	26,27SS,28,29,30
16			Project Kickoff Meeting	0 edays	8 hrs	Mon 7/13/15	Mon 7/13/15	14	
17			Verify & Validate User Requirements	0 edays	80 hrs	Mon 7/13/15	Fri 7/24/15	14	15,19,20,21,22,1
18			▲ Design Planning Specifications Build Bike	0 edays	0.5 days	Mon 7/27/15	Mon 7/27/15		
19			Head Tube Angle 70.5 degrees	0 edays	4 hrs	Mon 7/27/15	Mon 7/27/15	17	34,100
20			Seat Tube Angle 73.5 degrees	0 edays	4 hrs	Mon 7/27/15	Mon 7/27/15	17	34
21			Chainstay 17"	0 edays	4 hrs	Mon 7/27/15	Mon 7/27/15	17	34
22			Wheel Base length 41.3"	0 edays	4 hrs	Mon 7/27/15	Mon 7/27/15	17	34
23			▲ Procure Materials	0 edays	56 hrs	Wed 8/5/15	Thu 8/13/15		
24			Cut Head Tube 4.7 inches long with 2 " Diameter Tap both	0 edays	0.55 hrs	Wed 8/5/15	Wed 8/5/15	15	

25		Cut Bottom Bracket Tube 3.5 " w/ 2 " diameter Tap both	0 edays 0.55 hrs	Wed 8/5/15	Wed 8/5/15 15	55
26		Acquire Top Tube Triangular 6000 Alumx	0 edays 56 hrs	Wed 8/5/15	Thu 8/13/15 15	
27		Acquire Top Tube Triangular 6000 Alumx	0 edays 24 hrs	Wed 8/5/15	Fri 8/7/15 15SS	45,47,50,36,37,3
28		Acquire Down tube triangular 24"	0 edays 24 hrs	Wed 8/5/15	Fri 8/7/15 15	49,50,55,56
29		Acquire Seat Tube Circular 31.5 mm interior diameter 14"	0 edays 56 hrs	Wed 8/5/15	Thu 8/13/15 15	47
30		Acquire Front Fork After Market Rock Shox	0 edays 56 hrs	Wed 8/5/15	Thu 8/13/15 15	91,77,109
31		Acquire Head Tube Handle bar assembly	0 edays 56 hrs	Wed 8/5/15	Thu 8/13/15 15	45,50,96,91,77,1
32		Acquire raw materials for rear triangle by the	0 edays 16 hrs	Wed 8/5/15	Thu 8/6/15 15	69,79
33		➤ Create Manufacturing Syst	0 edays 1 day	Mon 8/3/15	Mon 8/3/15	
34		Initiate Manufacturing System	0 edays 8 hrs	Mon 8/3/15	Mon 8/3/15 15,19,20,21,22	
35		➤ REAR CORE Components second triangle of frame	0 edays 2 days	Mon 8/10/15	Tue 8/11/15	
36		Pre Cut drill Machine REAR Brake Side Bracket w/ Dropout Left	0 edays 16 hrs	Mon 8/10/15	Tue 8/11/15 27	53
37		Pre Cut drill and Machine REAR Derailuer Side Bracket	0 edays 16 hrs	Mon 8/10/15	Tue 8/11/15 27	52
38		Pre set distance with 6" Jig Side Brackets	0 edays 0.5 hrs	Mon 8/10/15	Mon 8/10/15 27	52,53
39		Fabricate Top Seat Stay Left 15 "	0 edays 16 hrs	Mon 8/10/15	Tue 8/11/15 27	53
40		Fabricate Top Seat Stay Right 15 "	0 edays 16 hrs	Mon 8/10/15	Tue 8/11/15 27	52
41		Fabricate Bottom Seat Stay Left 18 "	0 edays 16 hrs	Mon 8/10/15	Tue 8/11/15 27	53
42		Fabricate Bottom Seat	0 edays 16 hrs	Mon 8/10/15	Tue 8/11/15 27	52

43		Fabricate ARC Supports attached to Seat Stays Left and	0 edays 16 hrs	Mon 8/10/15	Tue 8/11/15 27	
44		▲ Weld main Frame together	0 edays 4.04 days	Mon 8/10/15	Fri 8/14/15	
45		Weld Top tube of Frame 20 inches to	0 edays 20 mins	Fri 8/14/15	Fri 8/14/15 27,31	
46		▲ Weld Top tube 1 inch below top of Seat post	0 edays 4.04 days	Mon 8/10/15	Fri 8/14/15	
47		Weld to Top Tube cable guides	0 edays 5 mins	Fri 8/14/15	Fri 8/14/15 27,29	
48		▲ Weld Down tube end to attach to Head tube in in yoke shape	0 edays 4.04 days	Mon 8/10/15	Fri 8/14/15	
49		Weld Down Tube wire guides for rear breaks and	0 edays 5 mins	Mon 8/10/15	Mon 8/10/15 28	
50		Weld Down Tube to Head Tube and Top Tube for	0 edays 20 mins	Fri 8/14/15	Fri 8/14/15 27,28,31	
51		▲ Weld Rear Frame	0 edays 0.25 days	Wed 8/12/15	Wed 8/12/15	
52		Weld rear Derailuer Seat Stay top 15"and	0 edays 0.5 hrs	Wed 8/12/15	Wed 8/12/15 40,42,37,38	54
53		Weld brake plate for brake side w/ dropout to top and Bottom seat	0 edays 0.5 hrs	Wed 8/12/15	Wed 8/12/15 36,39,41,38	54
54		Weld Arcs to Seat Stays one top and one bottom	0 edays 0.25 hrs	Wed 8/12/15	Wed 8/12/15 52,53	55
55		Weld bottom 18 inch Seat Stays to Bottom Bracket and seat Tube	0 edays 0.25 hrs	Wed 8/12/15	Wed 8/12/15 28,25,54	56
56		Weld Top seat stays down Tube two inches below top tube to Seat	0 edays 0.5 hrs	Wed 8/12/15	Wed 8/12/15 28,55	57
57		Weld Bottom left seat stay to top of tube along w/ cable guides for brake line 9 inches	0 edays 0.25 hrs	Wed 8/12/15	Wed 8/12/15 56	58
58		Weld Bottom right Seat	0 edays 0.25 hrs	Wed 8/12/15	Wed 8/12/15 57	60

102		Automate Assembly of components find ways to continuously improve processes	0 edays 8 hrs	Fri 8/7/15	Mon 8/10/15 97	
103		Testing	0 edays 5.47 days	Fri 8/7/15	Sat 8/15/15	
104		Stress Frame to test load strength through mechanical	0 edays 8 hrs	Wed 8/12/15	Thu 8/13/15 60,61	65
105		Stress front and rear wheels components through mechanical means	0 edays 4 hrs	Thu 8/13/15	Thu 8/13/15 62	
106		Automate mechanically all possible Shift	0 edays 8 hrs	Fri 8/7/15	Mon 8/10/15 98	
107		Test brake components at variable speeds measure stopping	0 edays 8 hrs	Fri 8/14/15	Sat 8/15/15 91	
108		Smart Phone Speaker Dock Optional accessory	0 edays 0.11 days	Fri 8/14/15	Fri 8/14/15	
109		Attach Phone Housing to right side handle bar	0 edays 0.12 hrs	Fri 8/14/15	Fri 8/14/15 30,31,62	110
110		Attach Clamp to right side handle bar	0 edays 0.36 hrs	Fri 8/14/15	Fri 8/14/15 109	111
111		Attach Ball and Pivot Joi	0 edays 0.36 hrs	Fri 8/14/15	Fri 8/14/15 110	
112		User Training	0 edays 0.75 days	Mon 7/27/15	Mon 7/27/15	
113		Provide Training on Syst	0 edays 4 hrs	Mon 7/27/15	Mon 7/27/15 17	
114		Provide Manager Training on System	0 edays 6 hrs	Mon 7/27/15	Mon 7/27/15 17	

81		True wheels by tuning spokes	0 edays 1 hr	Fri 8/7/15	Fri 8/7/15 80	82
82		Wrap rims and glue	0 edays 0.12 hrs	Fri 8/7/15	Fri 8/7/15 81	83
83		Install 26.5 X 2.1 thorn proof tubes	0 edays 0.12 hrs	Fri 8/7/15	Fri 8/7/15 82	84
84		<inflate tube 1lb>	0 edays 0.12 hrs	Fri 8/7/15	Fri 8/7/15 83	85
85		Install and seat tire on rim 26.5X 2.1 rubber	0 edays 0.5 hrs	Fri 8/7/15	Fri 8/7/15 84	86
86		Inflate tube to specified tire inflation	0 edays 0.12 hrs	Fri 8/7/15	Fri 8/7/15 85	88
87		▲ <b>Attach rear 8 speed Cassette and lock</b>	<b>0 edays 0.03 days</b>	<b>Fri 8/7/15</b>	<b>Fri 8/7/15</b>	
88		Attach finished rear wheel to frame	0 edays 0.24 hrs	Fri 8/7/15	Fri 8/7/15 86	97
89		▲ <b>Install Disc Braking System</b>	<b>0 edays 0.19 days</b>	<b>Fri 8/14/15</b>	<b>Fri 8/14/15</b>	
90		▲ <b>Install Front and Rear Disc to Wheel hubs</b>	<b>0 edays 0.19 days</b>	<b>Fri 8/14/15</b>	<b>Fri 8/14/15</b>	
91		Attach Brake Calipers to Frame Front and	0 edays 0.5 hrs	Fri 8/14/15	Fri 8/14/15 30,31,62SS-50%	92,107
92		Run cables to Brake levers and calipers	0 edays 0.5 hrs	Fri 8/14/15	Fri 8/14/15 91	93
93		Adjust calipers to run smoothly	0 edays 0.5 hrs	Fri 8/14/15	Fri 8/14/15 92	
94		▲ <b>Shifting System</b>	<b>0 edays 41.03 days</b>	<b>Thu 6/18/15</b>	<b>Fri 8/14/15</b>	
95		Attach front and rear derailuers	0 edays 0.25 hrs	Thu 6/18/15	Thu 6/18/15	
96		Attach front & rear Shifters to handlebar	0 edays 0.25 hrs	Fri 8/14/15	Fri 8/14/15 62,31	
97		Run cables through shifters and cable guides to rear and front derailuer and adjust	0 edays 0.25 hrs	Fri 8/7/15	Fri 8/7/15 88	98,102
98		Adjust pivots on rear and front derailuers to shift chain smoothly from gear to gear	0 edays 0.25 hrs	Fri 8/7/15	Fri 8/7/15 97	106
99		▲ <b>Integration</b>	<b>0 edays 14.56 days</b>	<b>Mon 7/27/15</b>	<b>Sat 8/15/15</b>	
100		Design Concept based on expert industry	0 edays 1 hr	Mon 7/27/15	Mon 7/27/15 19	
101		Check frame design	0 edays 0.24 hrs	Wed 8/12/15	Wed 8/12/15 60,61	

59		Smooth welds and sand blast frame/paint	0 edays 0.88 days	Wed 8/12/15	Thu 8/13/15		
60		Deburr welds	0 edays 0.5 hrs	Wed 8/12/15	Wed 8/12/15	58	101,104,61SS-50
61		Sand Blast Frame	0 edays 0.5 hrs	Wed 8/12/15	Wed 8/12/15	60SS-50%	101,104,62SS-50
62		Paint Frame two tone	0 edays 7 hrs	Wed 8/12/15	Thu 8/13/15	61SS-50%	65,67,77,96,105,
63		Crank Parts Assembled	0 edays 0.31 days	Thu 8/13/15	Thu 8/13/15		
64		Attach pedals to crank arms	0 edays 0.06 days	Thu 8/13/15	Thu 8/13/15		
65		Install Bottom Bracket spindle assemble into Bottom Bracket	0 edays 0.5 hrs	Thu 8/13/15	Thu 8/13/15	62,104	
66		Attach Chain rings to crank	0 edays 0.03 days	Thu 8/13/15	Thu 8/13/15		
67		Assemble and Attach crank Arms to Bottom Bracket	0 edays 0.25 hrs	Thu 8/13/15	Thu 8/13/15	62	
68		Wheels Build Front	0 edays 0.53 days	Fri 8/7/15	Fri 8/7/15		
69		Build Rim 26.5 inches by 2.1 inches	0 edays 1 hr	Fri 8/7/15	Fri 8/7/15	32	70
70		Attach spokes to rim and Front Hub	0 edays 1 hr	Fri 8/7/15	Fri 8/7/15	69	71
71		True wheels by tuning spokes	0 edays 1 hr	Fri 8/7/15	Fri 8/7/15	70	72
72		Wrap rims and glue	0 edays 0.5 hrs	Fri 8/7/15	Fri 8/7/15	71	73
73		Install 26.5X2.1 thorn proof tubes	0 edays 0.12 hrs	Fri 8/7/15	Fri 8/7/15	72	74
74		<inflate tube 1lb>	0 edays 0.12 hrs	Fri 8/7/15	Fri 8/7/15	73	75
75		Install and seat tire on rim 26.5X2.1 rubber	0 edays 0.5 hrs	Fri 8/7/15	Fri 8/7/15	74	76
76		Inflate tube to specified tire inflation	0 edays 0.12 hrs	Fri 8/7/15	Fri 8/7/15	75	
77		Attach Finished Wheel to Front Fork	0 edays 0.24 hrs	Fri 8/14/15	Fri 8/14/15	62,31,30	
78		Wheel Build Rear	0 edays 0.53 days	Fri 8/7/15	Fri 8/7/15		
79		Build Rim 26.5 inches by 2.1 inches	0 edays 1 hr	Fri 8/7/15	Fri 8/7/15	32	80
80		Attach spokes to rim and rear Hub	0 edays 1 hr	Fri 8/7/15	Fri 8/7/15	79	81
81		True wheels by tuning spokes	0 edays 1 hr	Fri 8/7/15	Fri 8/7/15	80	82

### References

Project Management Institute (PMI). (2013). *Project Management Body of Knowledge (PMBOK)* (Vol. 5). Newtown Square, PA, USA: Project Management Institute Inc.