Develop Bicycle Schedule

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Plan, Direct, Control Project

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Develop Bicycle Schedule

Developing the schedule is the process of analyzing activity sequences, durations, resource requirements and schedule constraints to create the project schedule. The benefit of this process is it creates a schedule with durations and planned dates for completing project activities. This is a repetitive process used to determine start and finish dates for project activities and milestones based on accurate input from those working the project (PMBOK, 2013).

For the bicycle project, Team 4 used Microsoft project with data from the WBS Dictionary to create bicycle production schedule. Once the data was entered the team determine the start and finish dates for the overall project as well as for each WBS activity. The schedule also helped in creating the cost estimates and budget for the bicycle project as well. Figure 1 shows the schedule created in Microsoft Project.

Task Name	Duration	Start	Finish	Predecessors
Bicycle	14.48 days	Thu 6/15/17	Wed 7/5/17	
Frame Set	0.28 days	Tue 6/27/17	Tue 6/27/17	
Secure Frame	0.28 hrs	Tue 6/27/17	Tue 6/27/17	
Install Handlebar	0.03 hrs	Tue 6/27/17	Tue 6/27/17	5
Install Fork	0.18 hrs	Tue 6/27/17	Tue 6/27/17	3
Install Seat	0.03 hrs	Tue 6/27/17	Tue 6/27/17	3
Crank Set	0.4 days	Tue 6/27/17	Tue 6/27/17	
Mount Pedals	0.03 hrs	Tue 6/27/17	Tue 6/27/17	
Install Bearings	0.06 hrs	Tue 6/27/17	Tue 6/27/17	
Install Crank Arms	0.06 hrs	Tue 6/27/17	Tue 6/27/17	
Mount Sprocket	0.03 hrs	Tue 6/27/17	Tue 6/27/17	
Wheels	0.42 days	Tue 6/27/17	Tue 6/27/17	
Install Front Wheel	0.04 hrs	Tue 6/27/17	Tue 6/27/17	
Install Rear Wheel	0.09 hrs	Tue 6/27/17	Tue 6/27/17	11
Braking System	0.01 days	Tue 6/27/17	Tue 6/27/17	
Mount Brake Levers	0.1 hrs	Tue 6/27/17	Tue 6/27/17	3
Route Brake Cables	0.03 hrs	Tue 6/27/17	Tue 6/27/17	3

Figure 1: Bicycle WBS Schedule

DEVELOP BICYCLE SCHEDULE

Install Brake Pads and Mechanisms	0.05 hrs	Tue 6/27/17	Tue 6/27/17	3
Shifting System	0.02 days	Wed 6/28/17	Wed 6/28/17	
Install Derailers	0.06 hrs	Wed 6/28/17	Wed 6/28/17	3
Route Shift Cables	0.04 hrs	Wed 6/28/17	Wed 6/28/17	3
Mount Shift Levers	0.13 hrs	Wed 6/28/17	Wed 6/28/17	3
Integration	4.56 days	Thu 6/15/17	Wed 6/21/17	
Concept	3 hrs	Thu 6/15/17	Thu 6/15/17	
Design	6.75 hrs	Thu 6/15/17	Fri 6/16/17	24
Assembly	1.5 hrs	Mon 6/19/17	Mon 6/19/17	25
Testing	1.56 days	Tue 6/20/17	Wed 6/21/17	
Component Test	1.25 hrs	Tue 6/20/17	Tue 6/20/17	
Product Test	8 hrs	Tue 6/20/17	Wed 6/21/17	28
Customer Test	3.25 hrs	Wed 6/21/17	Wed 6/21/17	29
Phone Dock	5.28 days	Mon 6/19/17	Mon 6/26/17	
Install Dock Mount	0.25 hrs	Mon 6/19/17	Mon 6/19/17	
Mount Power Supply	4.4 hrs	Mon 6/19/17	Tue 6/20/17	32
Connect Bluetooth	5 hrs	Mon 6/26/17	Mon 6/26/17	33
Project Management	14.48 days	Thu 6/15/17	Wed 7/5/17	
Initiation	1.88 hrs	Thu 6/15/17	Thu 6/15/17	
Preliminary Plan	5.63 hrs	Fri 6/16/17	Mon 6/19/17	36
Planning	0.63 hrs	Mon 6/26/17	Mon 6/26/17	37
Production	6.25 hrs	Tue 6/27/17	Tue 6/27/17	38
Closeout	0.75 hrs	Wed 7/5/17	Wed 7/5/17	39

References

Project Management Institute (PMI). (2013). A guide to the project management body of knowledge (PMBOK® guide) (5th ed.). Newton Square, Pa: Project Management Institute.