**Silver Zuma Project – Part I**

The ARC Company specializes in developing and selling a wide range of high-quality scooters. Sales representatives report that there is a growing demand for racing scooters. ARC’s president, Robin Lane, is excited about the possibilities and predicts that one day these kinds of razor scooters will be featured in X-Game events. ARC is a small company and uses a strong matrix to optimally utilize limited manpower.

You are a member of a project team assigned to develop the new razor scooter code named “Silver Zuma.” Table 1 contains the information necessary to create a project schedule. For the purpose of this case assume the following:

**Part A.**

1. The project begins January 6, 2014.
2. The following holidays are observed: January 1, Memorial Day (last Monday in May), July 4th, Labor Day (first Monday in September), Thanksgiving Day (4th Thursday in November), December 25 and 26.
3. If a holiday falls on a Saturday then Friday will be given as an extra day off, and if it falls on a Sunday, then Monday will be given as a day off.
4. The project team works eight-hour days, Monday through Friday.

**Table 1 - Silver Zuma Project**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Task Name** | **Duration** | **Predecessors** |
| 1 | Product development project |  |  |
| 2 | Market analysis | 25 days |  |
| 3 | Product design | 40 days | 2 |
| 4 | Manufacturing study | 20 days | 2 |
| 5 | Product design selection | 10 days | 3,4 |
| 6 | Detailed marketing plans | 15 days | 5 |
| 7 | Manufacturing process | 30 days | 5 |
| 8 | Detailed product design | 50 days | 5 |
| 9 | Test prototype | 10 days | 8 |
| 10 | Finalized product design | 25 days | 7,9 |
| 11 | Order components | 7 days | 10 |
| 12 | Order production equipment | 14 days | 10 |
| 13 | Install production equipment | 25 days | 11FS + 20days  12FS + 40 days |
| 14 | Celebrate | 1 day | 13 |

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Set up this project in MS Project 2010 and answer the following questions:

1. When is the project estimated to be completed (date)? How long will the project take (days)?
2. What is the critical path for the project? (identify by task numbers)
3. Which activity has the greatest amount of free slack?
4. Compare the advantages/disadvantages of displaying the schedule as a network versus a Gantt chart.
5. When is the project estimated to be completed (date)? How long will the project take (days)?

**Finish Date: ?? / ?? / ????? Duration: \_\_\_\_\_\_\_ Days**

1. What is the critical path for the project? (identify by task numbers)

**Critical Path:**

1. Which activity has the greatest amount of free slack?

**Activity Name: Days: \_\_\_\_\_\_**

1. Compare the advantages/disadvantages of displaying the schedule as a network versus a Gantt chart.