Learning Journal 3

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Course: Software Project Management

Journal URL: https://github.com/sankarsiva007/SOEN-6841-Learning-Journals/blob/main/Learning%20Journal%203%20-%2040162043.pdf

Dates Rage of activities: 2024-10-07 to 2024-10-21

Date of the journal: 2024-11-01

Key Concepts Learned

During the past couple of weeks, we explored core areas of “project planning” and “project monitoring & control”. We covered foundational tools like the Work Breakdown Structure (WBS) for breaking down tasks, Earned Value Management (EVM) to track costs and schedules, and approaches for project scheduling, such as top-down and bottom-up planning. We also discussed visual tools like Gantt charts and activity networks to help manage task dependencies and timelines. Finally, we looked at how to handle scope, risk, and quality assurance to make sure projects stay on budget and meet client expectations.

Application in Real Projects

These strategies would be incredibly helpful in managing real-world projects, especially those that are large or complex. For example, creating a WBS would help to organize tasks clearly, define dependencies, and allocate resources according to their strengths. EVM would be useful in keeping track of how the project is progressing relative to budget and timelines, which helps identify potential overruns early on. However, EVM does require accurate, up-to-date data to be effective, which can be tricky in projects where requirements are constantly shifting.

When it comes to scheduling, Gantt charts and activity networks allow for a clear visualization of task order, making it easier to spot potential bottlenecks and manage dependencies. Using both top-down and bottom-up planning also offers some flexibility but top-down is great for setting a high-level schedule and bottom-up works well for detailed estimations as the project evolves.

Risk and scope management are critical in real projects too, particularly when managing client expectations and preventing scope creep. Risk management techniques, like keeping a contingency budget or designating backup resources, can help minimize disruptions if

unexpected issues arise. A solid quality assurance plan ensures that deliverables are consistent and meet standards, reducing rework and helping maintain a steady level of quality.

Peer Interactions

Talking with peers this week provided new insights into different project planning approaches. We discussed the advantages of top-down versus bottom-up planning and the role of activity networks in identifying critical tasks to avoid delays. Peers also shared valuable perspectives on risk management, emphasizing the importance of assessing risks early to stay ahead of potential setbacks.

Challenges Faced

This week, understanding EVM and learning to work with its metrics, such as cost and schedule variance, required extra effort. It was also challenging to work out performance indicators and determine the best way to allocate resources within a WBS, especially when balancing dependencies without overloading team members.

Personal Development Activities

To improve my skills, I reviewed more on project scheduling techniques and practiced using Gantt charts and activity networks. Working on sample Gantt charts helped me get a clearer sense of how to visually organize tasks and manage dependencies. I also explored critical path analysis, where I calculated the longest paths in sample networks to understand how delays in key tasks affect the entire project timeline.

Additionally, I studied quality assurance planning to understand how to ensure project outcomes are consistent and meet standards. Lastly, I practiced variance analysis in EVM and worked on interpreting basic metrics to build my confidence in tracking project progress accurately.

Goals for the Next Week

Next week, I plan to focus on getting more comfortable with Earned Value Management (EVM), particularly variance analysis, and aim to improve my skills in resource allocation and risk mitigation strategies to enhance my project management approach.