



# Improving on-time commitment performance



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## Analysis

### Abstract

To improve the on-time commitment performance of organization XYZ, the current commitment process was evaluated. The methodology to improve the commitment process was broken down into five steps: (1) Assigning an engineer; (2) Engineer comes up with a schedule; (3) Completion of technical documentation and review cycle; (4) Technical submittal for approval; and (5) Commitment is closed. After implementing the commitment process improvements, the on-time commitment rate improved from 78% to 85%.

### Introduction

XYZ is an organization that builds submarines. Building a submarine is a difficult and challenging process therefore this organization is divided into multiple departments. Within this organization, an engineering department verifies that the electrical components in the submarine work and operate properly. In an event a component malfunctions and requires to be redesigned, a commitment is opened to track that liability. The purpose of the commitment is to track the technical documentation that will be submitted for approval.

### Problem

The current commitment process is not meeting the required metrics of 90% on-time commitment completion rate. To improve the current 78% completion rate, the commitment process was analyzed to provide improvements. The five steps were broken down individually to provide full assessment in an effort to comply with the required 90% on-time commitment completion rate.

To improve the on-time commitment completion rate, the current process was analyzed to determine which areas require improvements. There are five steps in which the commitments are carried out:

An engineer is assigned to the task.

The engineer comes up with a schedule.

The engineer completes the technical documentation and its placed in a review cycle.

The document is submitted for approval.

Commitment is closed.

### Assigning an engineer

When evaluating a candidate for a task, there are a few things that that are now being taken into consideration before assigning an engineer to the task. First, the engineer needs to possess the knowledge, skill, and position-specific ability to complete the task. To verify whether the candidate was right for the task, previous achievements were reviewed. Measuring previous achievements helped predict whether the candidate was the right fit for the task [1]. Second, the engineer did not only need to be skilled, but also have the desire to work on the task. Allowing the engineer to choose the tasks based on their knowledge and interest helped improve the task productivity. This change helped the engineer to complete the tasks more efficiently.

### Engineer comes up with a schedule

It was noted that before coming up with a good schedule, the engineer needs to understand the task and set up a plan. Planning was determined to be necessary to set goals, objectives, and identifying priorities for the task. Understanding that unforeseen events occur and tolerances for deviations need to be taken into consideration when coming up with the schedule [2].

To come up with a good schedule, the first thing done was to lay out all of the tasks that needed to complete within a time frame. A Gantt Chart was identified to be a good tool to use to identify items and their completion dates. Gantt Charts did an excellent job of showing the time required for various tasks and worked best for overall picture [3].

After creating the schedule and the engineer began to working the task, follow up meetings between the supervisor and engineer were implemented. During the meetings the engineer brought the Gantt Chart to give status of where the task was. This was useful for determining unforeseen events. Once deviations arose, the supervisor helped the engineer correct them.

### Completion of technical documentation and review cycle

To improve on the first issue proper, training on how to write a technical documentation was assigned to the engineer [4]. Additional to assigning training, the supervisor assigned mentors to engineers that required more guidance.

To improve the second issue with the review cycle, this step was analyzed as a group process. The group members first held a meeting to understand the task and devised a plan on how they would manage their time on the task accordingly [5]. Working together to complete the task even though the commitment was assigned to only one engineer helped to speed up the review cycle and the completion of the technical documentation.

### Technical submittal for approval.

To improve this process, the engineer had to be in contact with the person that reviewed the technical document and answered questions that came up during the approval process. This helped maintain communication between both parties and the documentation was processed correctly.

### Commitment is closed

To improve this step, the engineer verified that all the pertinent paper work had been filled out correctly and that the document is added to the databank correctly.

### CONCLUSION

After implementing these improvements to the commitment process, the technical submittals have been getting completed at a greater rate. As of now commitment completion rate has improved from 78% to 85%. Further improvements to the commitment process will be evaluated to help increase the completion percentage and get it to the 90% that is requested.

### REFERENCES

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