Assignment 7

The objective is to identify the component that failed.

1. Identify the affected component.

   a. Identify the affected component.

   b. Determine the cause of the failure.

   c. Propose a solution to prevent future failures.

2. Analyze the root cause of the failure.

   a. Evaluate the component's design and operation.

   b. Investigate the environmental conditions.

   c. Review the maintenance history.

3. Develop a preventive maintenance plan.

   a. Establish inspection procedures.

   b. Establish maintenance procedures.

   c. Establish corrective action procedures.

4. Test the corrective solution in a simulated environment.

   a. Conduct performance tests.

   b. Conduct stress tests.

   c. Conduct reliability tests.

5. Implement the corrective solution in the production environment.

   a. Monitor the component's performance.

   b. Adjust the preventive maintenance plan as necessary.


   a. Prepare a technical report.

   b. Prepare an operation manual.

   c. Prepare a maintenance manual.

7. Review the effectiveness of the corrective solution.

   a. Conduct a follow-up inspection.

   b. Conduct a follow-up maintenance.

   c. Conduct a follow-up test.

8. Evaluate the overall impact of the corrective solution.

   a. Compare the results with the initial assessment.

   b. Compare the results with the corrective solution.

   c. Compare the results with the preventive maintenance plan.

9. Recommend any necessary improvements.

   a. Review the corrective solution's performance.

   b. Review the preventive maintenance plan's performance.

   c. Review the overall system's performance.