

Analisa efektivitas peralatan uji statik pada balai pengujian struktur dengan metode total productive maintenance = The effectiveness analysis for static test equipment at the center of structure testing using total productive maintenance method

Faisal, author

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20454326&lokasi=lokal>

Abstrak

Pemeliharaan peralatan pada pelayanan jasa laboratorium merupakan bagian dari manajemen mutu untuk menjaga peralatan dalam kondisi baik, aman, handal, konsisten serta akurat. Untuk menjamin kualitas dan mengurangi kerugian kegagalan peralatan mesin, diperlukan pendekatan metode pemeliharaan. Total Productive Maintenance TPM sebagai konsep pemeliharaan yang menjaga dan meningkatkan kualitas produk dengan memperbaiki kondisi kerja mesin, dan mengurangi kegagalan.

Pengukuran TPM dilakukan dengan menggunakan metode Overall Equipment Efektiveness OEE untuk meningkatkan kinerja organisasi yang terdiri dari tiga komponen utama yaitu availability, performance rate dan quality rate. Hasil pengukuran OEE kemudian dianalisis dengan bantuan diagram pareto dan fishbone. Hasil penelitian menunjukkan nilai OEE rata-rata masih rendah dari standar world class, dimana nilai availability 84 , performance rate 67 , quality rate 99 dan nilai OEE 56.

.....Equipment maintenance on laboratory services is part of quality management to keep equipment in good condition, safe, reliable, consistent and accurate. To ensure quality and reduce the loss of machine equipment failure, a maintenance method approach is required. Total Productive Maintenance TPM as a maintenance concept that maintains and improves product quality by improving machine working conditions, and reducing failure.

TPM measurement is done using Overall Equipment Effectiveness OEE method to improve organizational performance, which consists of three main components namely availability, performance rate and quality rate. The results of OEE measurements were then analyzed with the help of pareto and fishbone diagrams. The results show that the average OEE score is still lower than the world class standard, where the availability is 84, the performance rate is 67 , the quality level is 99 and the OEE value is 56.