

ABSTRAK

PT. SARANA KARYA SOLUSINDO merupakan perusahaan yang memproduksi lampu Penerangan Jalan Umum (PJU), dengan produk unggulan yaitu lampu PJU *series* BANDELL S09 RUSH90. Proses pembuatan lampu PJU *series* BANDELL S09 RUSH90 dilakukan dengan cara semi-manual. Manusia merupakan salah satu faktor penting dalam kualitas akhir dari produksi lampu PJU *series* BANDELL S09 RUSH90. Dikarenakan manusia terdapat keterbatasan, maka sering terjadi kesalahan yang menghasilkan kecacatan produk. Berdasarkan hasil observasi diketahui kategori penyebab dari cacat pada pemasangan *terminal block* adalah *human error*. Dalam penelitian dilakukan penerapan metode *Systematic Human Error Reduction and Prediction Approach* (SHERPA) dan *Human Error Assessment and Reduciton Technique* (HEART) dengan tujuan untuk mencegah terjadinya *error* yang sudah terjadi dan *error* baru yang mungkin terjadi dengan penyebab manusia. Hasil dari metode yang digunakan tersebut diperoleh solusi perancangan metode kerja pada proses produksi lampu PJU *series* BANDELL S09 RUSH90 diantaranya yaitu proses perakitan mencegah terjadinya *human error* maka disusun *Hierarchical Task Analysis* (HTA) baru dari proses perakitan. HTA baru disusun berdasarkan tabel direduksi yang telah dibuat sebelumnya dari setiap *error* yang sudah terjadi dan kemungkinan *error* terjadi.

Kata Kunci: Human Error, *Systematic Human Error Reduction and Prediction Approach* (SHERPA), *Human Error Assessment and Reduction Technique* (HEART), lampu PJU *series* BANDELL S09 RUSH90, *Human Task Analyst* (HTA)

ABSTRACT

PT. SARANA KARYA SOLUSINDO is a company that produces street lighting (PJU), with a superior product, namely the BANDELL S09 RUSH90 series PJU lamp. The process of making the BANDELL S09 RUSH90 series PJU lamp is carried out semi-manually. Humans are one of the important factors in the final quality of the production of the BANDELL S09 RUSH90 series PJU lamp. Because humans have limitations, errors often occur that result in product defects. Based on the results of observations, it is known that the category of causes of defects in the installation of terminal blocks is human error. In the study, the application of the Systematic Human Error Reduction and Prediction Approach (SHERPA) and Human Error Assessment and Reducton Technique (HEART) methods was carried out with the aim of preventing errors that have occurred and new errors that may occur due to human causes. The results of the method used obtained a solution to design a work method in the production process of the BANDELL S09 RUSH90 series PJU lamps, including the assembly process to prevent human error; a new Hierarchical Task Analysis (HTA) was compiled from the assembly process. The new HTA was compiled based on a previously created reduced table of each error that had occurred and the possibility of an error occurring.

Keywords : Human Error, Systematic Human Error Reduction and Prediction Approach (SHERPA), Human Error Assessment and Reduction Technique (HEART), PJU series BANDELL S09 RUSH90 lamp, Human Task Analyst (HTA)