

## Reliability assessment sebagai upaya pengurangan human error dalam penerapan kesehatan dan keselamatan kerja = Reliability assessment to reduce human error in health and safety application

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### Abstrak

**ABSTRAK**  
Penelitian ini mengkaji aspek keandalan manusia dalam penerapan Kesehatan dan Keselamatan Kerja (K3) pada pabrik susu bayi terbesar di Jakarta dengan mengevaluasi potensi human error pada proses produksi menggunakan metode Hierarcical Task Analysis, Fault Tree Analysis dan membandingkan metode pengukuran keandalan manusia antara metode HEART (Human Error Assessment and Reduction Technique) dan metode SPAR-H (Standardized Plant Analysis Risk Human Reliability Assessment). Hasil penelitian ini yaitu berupa Human Error Probabilities dimana resiko human error terbesar terjadi pada area Tipping dengan pengukuran metode HEART dan area Preparation dengan pengukuran metode SPAR-H. Penelitian ini juga membandingkan penggunaan metode HEART dan SPAR-H.

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### **Abstract**

This research studies human Reliability in safety application at the biggest baby nutrition factory in Jakarta by evaluating the risk of human error in production line. The methods in this research are Hierarcical Task Analysis (HTA), Fault Tree Analysis (FTA), and also compared Reliability assessment methods between HEART (Human Error Assessment and Reduction Technique) and SPAR-H (Standardized Plant Analysis Risk Human Reliability Assessment). The research result are Human Error Probabilities that shows the biggest human error risk are in Tipping area based on assessment by HEART and in Preparation area based on assessment by SPAR-H. HEART and SPAR-H. This result also compare the application of HEART and SPAR-H.