

TRAINING MANAGEMENT SYSTEM BASED ON PROCESS SAFETY
MANAGEMENT

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ABSTRAK

Terdapat banyak kemalangan yang berlaku dalam industri proses yang menggunakan bahan kimia yang sangat berbahaya. Salah satu faktor kemalangan berlaku adalah kerana latihan yang tidak mencukupi pekerja. Sistem pengurusan latihan yang mematuhi 29 CFR 1910.119 (g) telah dibangunkan. Sistem ini membolehkan pengguna mengurus dan menjejaki maklumat, dokumentasi dan tindakan yang diperlukan mengenai latihan mereka. Selain itu, ia menyediakan asas untuk analisis jurang yang akan dijalankan. Rangka kerja ini dibangunkan sebagai panduan bagi majikan untuk menguruskan latihan dengan cara yang sistematik. Pelaksanaan sistem ini dapat membantu organisasi untuk mengatur program latihan mereka dan memastikan kecekapan kakitangan loji seperti yang diharapkan dapat mencegah dan meminimumkan kemalangan bencana. Dengan membangunkan sistem ini, mudah bagi pengguna akhir mengetahui berapa peratus peratusan kepatuhan program latihan dalam organisasi.

ABSTRACT

There are many accidents happened in process industries that used highly hazardous chemical. One of the factors of accidents happen is because of inadequate training of employees. The training management system that complied with 29 CFR 1910.119(g) has been developed. This system allows users to manage and track information, documentations and required actions regarding their trainings. Besides, it provides a basis for gap analysis to be carried out. The framework was developed as a guide for the employer to manage the training in a systematic ways. Implementation of this system could help an organization to arrange their training program and ensure the competency of plant personnel as intended that could prevent and minimize catastrophic accidents in. By developing this system, it is easy for end users to know how much the percentage of compliance of training program in an organization. Moreover, the system could be better in future with additional element of others in PSM standard.