

HEALTH AND SAFETY IN REFURBISHMENT PROJECTS INVOLVING
DEMOLITION WORK

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To my beloved sister and our late Iliya

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ABSTRAK

Pengubahsuaian adalah sebarang penaiktarafan, perubahan, perubahan dalam status semasa sesebuah bangunan bagi meningkatkan persembahan prestasi dan keberkesanan sesuatu struktur. Projek-projek pengubahsuaian melibatkan perubahan struktur, pengekal dan perobohan sebahagian di mana melibatkan beberapa risiko yang berbeza. Adalah penting bagi menimbang dan mengutamakan isu-isu keselamatan dan membangunkan strategi-strategi pengurusan yang boleh diaplikasikan bagi amalan pengubahsuaian sebagaimana peningkatan dalam jumlah projek – projek pengubahsuaian dan peningkatan kadar kematian yang berpunca daripada kerja pengubahsuaian. Peningkatan dalam jumlah kemalangan boleh memberikan kesan kepada kumpulan projek dalam banyak aspek. Kerugian kewangan dan penangguhan dalam menyempurnakan kerja, akibat tipikal yang berpunca daripada aktiviti-aktiviti pengubahsuaian. Bagi kes-kes yang kritikal, imej kontraktor, para pelanggan, dan pengurusan secara umumnya, akan tercalar. Oleh itu, pembekalan senarai semak keselamatan dan kesihatan membantu mengurangkan ketidakpatuhan dalam peraturan-peraturan berkaitan keselamatan dan kesihatan dan meningkatkan aliran komunikasi dalam projek-projek ubahsuai. Lanjutan itu, senarai semak ini akan digunakan sebagai asas bagi latihan keselamatan dan kesihatan bagi para pekerja. Untuk mencapai target ini, teknik perobohan, kaedah dan laporan kemalangan semasa projek pengubahsuaian dikenalpasti dan dikaji. Selain itu, temubual semi-struktur dikendalikan bagi membekalkan senarai punca bahaya yang berlaku dalam tapak dan langkah-langkah berjaga yang sesuai boleh diaplikasikan dalam projek bagi mengelakkan kemalangan-kemalangan dalam kawasan kerja. Keputusan yang diperolehi diorganisasikan dalam senarai semak aktiviti-aktiviti, langkah-langkah berjaga dan cadangan-cadangan.

ABSTRACT

Refurbishment is any upgrade, alteration, modification in the current status of the building to improve performance and efficiency of the structure. Refurbishment projects involve structural alteration, retention and partial demolition which merely coincide with different risks. The importance of considering safety issues and developing management strategies applicable for refurbishment practice arise as a result of increase in the total number of the refurbishment projects and growth of the fatality rate caused by refurbishment work. Increase in the number of accidents may affect project team in many aspects. Financial losses and delay in the completion of work are the typical consequences caused by refurbishment activities. On the critical cases, the public image of the contractors, clients, and management team as general, will be damaged. Therefore, providing a safety and health check list may assist to reduce incompliance with health and safety regulations and to improve communication flow in refurbishment projects. Further, this check list may be used as a basis for the health and safety trainings for the workers. To achieve this target, demolition techniques, methods and accident reports on the refurbishment project has been identified and reviewed. Next, a semi-structured interviewed was conducted to provide a list of common hazards occurring in the site and appropriate precautions that can be applied in the project to prevent accidents in working place. The obtained result was organized in a check list of activities, preventive actions and recommendations.