

# Timber IBS Training Game using Serious Game Methodology (FOREMAN)

### **TECHNOLOGY DESCRIPTION**

THE IBS FOREMAN is Serious Game training instrument embodying the Timber-IBS Training Manual.

## **TECHNOLOGY FEATURES**

This technology includes the safety and skill aspects of assembling the prefabricated timber framing components at the construction site. It covers four stages simulating on-site erection processes of prefabricated timber framing assembly. These four stages are a) Trade Tools and Personal Protective Equipment stage; b) Material Storage stage; c) Assembly staging stage and d) Assembly Erection stage. This technology is suitable for training low-skilled labourers to master the safety and skill knowledge required in timber framing assembly of industrialized projects.

### **ADVANTAGES**

- Target group having fun while learning. It increases learning interest with more than 95% preference to learning.
- · Learning complex safety and knowledge skills for t-f assembly
- Improves reduction of assembly errors as much as 92% compared to manual training process
- Employees have increased accuracy knowledge about ibs system

# **INDUSTRY OVERVIEW**

Prospect Industry: Training, education and continuing professional development (CPD) in the construction industry

Globally, training for workers in the construction industry is organized and monitored/managed by certain bodies such as the Construction Industry Training Board, the Construction Industry Federation and Construction Industry Training Council. In Malaysia, acting as the supra-organisation that overseas these training programmes is the National Vocational Training Council. The latest to get involved in the generation of semi-skilled and skilled site operatives is the Construction Industry Development Board (CIDB). In the meantime, there are over 64,000 contractors, a few thousand clients and consultant organisations are involved in skill training in Malaysia. There are easily more than one million foreign construction workers within the industry and most have very little training or competency to work on construction projects. With the exception of a few large construction based companies who provide in-house training, construction managerial and supervision training at the industry level are mostly offered by few government agencies (Hassan, 2009). Complementing the managerial and supervision training are the craft-based training at the operative level offered by 20 training and vocational institutes scattered throughout the country. The construction industry needs a continuous supply of workers – an estimated of one million every year, about 1.3 million foreign workers are needed at construction sites throughout the country, to sustain growth of 8% to 10%.



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