# TVETMETAVERSE

MULTIPLAYER XR FOR IBS CONSTRUCTION TRAINING

A Construction Technology tool developed in-line with CIDB Malaysia's Construction 4.0 : A Guide For Digital Transformation
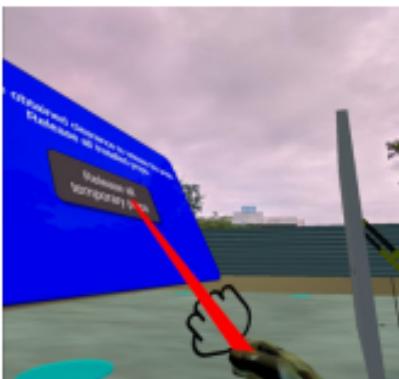
ABOUT TVETMETAVERSE

First introduced by Innovacia in 2019, TVETMetaverse is now a rich extended reality (XR) platform for construction component installation process using collaborative technology.

The first of its series is the Precast Concrete Installer Level 2 which is based on the National Occupation Skill Standard (NOSS) produced by Department of Skills Development. TVETMetaverse digitalises the traditional construction-based TVET training programs with new technology; besides reducing time and costs.

EXISTING XR TRAINING SIMULATOR SPACES

IBS Precast Concrete Column Installation
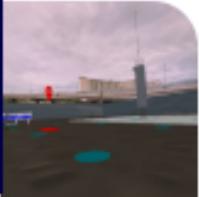
IBS Precast Concrete Slab Installation

IBS Precast Concrete Beam Installation

IBS Precast Concrete Wall Installation

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RECOMMENDED SPECIFICATIONS

DESKTOPS

Operating System	Windows 10, 11
Processor	Intel Core i5 or AMD Ryzen 5 or greater
Memory and storage	8GB RAM with minimum 10GB of free disk space.
Additional Requirements	Internet Connection for Multiplayer Features (minimum 30 Mbps)
Desktop version features	• Multiplayer collaboration up to 4 concurrent users each spaces • XR Device Simulator to run VR interactions on using mouse and keyboard controls on desktops.

VIRTUAL REALITY (VR) DEVICES

Headset	Oculus Quest 2
Memory and storage	Minimum 4GB RAM with 128GB storage size
Additional Requirements	• USB Port for VR Headset Connection (C-Type) for charging • Internet Connection for Multiplayer Features (minimum 30 Mbps)
Controller Battery Type	1xAA (2 AA battery for a pair of controllers)
Maximum device battery life	3 hours

TVETMETAVERSE

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