

## About ELITC

Electronics Industries Training Centre (ELITC) is a non-profit organization set up in 1986 by a group of leading electronics multi-national companies in Singapore. ELITC conducts courses to equip and upgrade workers skills and competency. ELITC provides WSQ training, Continuing Education, Technical & Work Skills Improvement, Soft Skills Development and Foreign Workers Training. In addition, ELITC is able to customize training packages to meet in-house needs of companies.



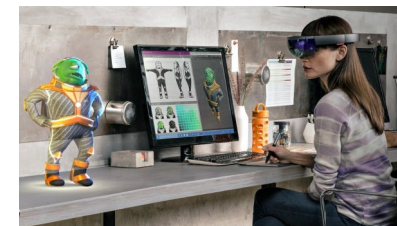
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## Applying Extended Reality (AR/VR/MR) In Industry

Code: AXRI

Duration: 14.5hrs



# Applying Extended Reality (AR/VR/MR) In Industry

## Synopsis

As industries adapt to working and doing business in this new hybrid - digital first norm, companies have accelerated their digital transformation efforts with Industry 4.0 concepts and related tools and technologies across their overall business value chain.

With the advancement in Immersive Technology, Augmented Reality and Virtual Reality concepts and technologies have gained momentum to bridge the need for collaboration and work between the physical and virtual space. While adoption of AR/VR/MR is gaining traction in the Manufacturing sector (supporting process optimization, digital data visualization, technical training, troubleshooting and repair, predictive and preventive equipment maintenance, safety and quality assurance) there is now a renewed interest for XR across industries from Retail, Building Construction, Healthcare, Education.

The Extended Reality in Industry program (**a collaboration between Agilitas Learning and ELITC supported by leading technology players in XR**) provides a structured approach towards the capability development of the workplace and the workforce in companies in understanding the transformation taking place in their respective industries and in identifying and implementing the right extended reality (AR/VR and MR) solution to support their workplace digital transformation efforts.

Organised by: *In Collaboration with:*



## Course Objective

On completion of this module, it will provide participants an overview of immersive technology in the industry and equip them with the knowledge and skills in identifying the right XR tools and technology for their workplace and business needs.

## Course Outline

Upon completion of the course, learners will be able to:

- define Immersive Technology and describe the evolution of Immersive Technology
- differentiate Virtual Reality (VR), Augmented reality (AR) and Mixed reality (MR)
- explain the concept and working principles of AR/VR/MR technology
- identify the different XR technologies and tools and their capabilities
- state the benefits and limitations of usage
- state the business case and benefits of AR /VR/MR in industrial use
- identify leading AR/MR solutions and applications in operations and industries
- recognise the considerations and limitations of AR/MR applications
- develop an action plan on the use of AR/MR applications back at the workplace

Hands-On:

In the workshop, learners will be introduced to various AR/VR tools (Hololens 2, Lenovo ThinkReality AR Glasses, Realwear, Oculus Quest ) and AR/VR applications (Microsoft Dynamics 365 Remote Assist and Guide, Taqtile Manifest, Lenovo ThinkReality Sphere HoloOne, Hiverlab CloudExplo) among others.

## Essential Requirement

Participants are required to bring their personal laptop for the work assignment.

## For Whom

This workshop is targeted for companies exploring XR applications in their workplace and for those looking at equipping the workforce with skills in using of XR applications and tools.

Suitable for Professionals, Managers, Executives & Technicians and anyone who want to have an understanding and experience of Immersive technologies.

## Training Medium:

This module is conducted in English.

## Training Methodology

This module is delivered through e-learning, lectures, demonstration, self-reflection, group activities and peer practices.

## Assessment Methodology

Practical and written assessments are conducted at the end of the training.

## Certification:

A Certificate of Proficiency from ELITC & Agilitas Learning will be awarded to trainees upon completing and passing the assessment. Otherwise, a Certificate of Participation will be issued to those who attained a minimum attendance of 75%.

## Supported by Solution Partners:



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