

Skillsfuture for Digital Workplace 2.0 (Build Environment Sector)

 **COURSE DURATION**
15 Hrs

 **COURSE REFERENCE NO.**
TGS-2023037504

 **MODE OF TRAINING**
Classroom

 **FUNDING VALIDITY**
Till 30 Jun 2025

This course is targeted towards those working in the Built Environment sector. We will cover the technological advances that are impacting or will impact the sector. In this course, we will help learners to understand the implication of various technology advancement and digital tools that will affect how the built environment sector operates and how it affects the manpower skills required.

Learners will be introduced to competencies such as analytics to understand construction defects and to use digital tools regarding additive manufacturing like 3D printing for construction, augmented reality using goggles at the worksite.

Course Objectives

By the end of this course, learners will be able to:

- State the jobs and digital skills required in the current and future digital economy
- Describe the work requirements in a technology-rich environment and know the associated cybersecurity risks
- Identify various digital applications and tools in work applications, including widely applicable national and sectoral platforms
- Suggest how data and information can be used
- Perform functional outcomes such as the use of digital tools and software to access various learning paths and content
- Develop a post-course action plan to continue learning (i.e., to identify courses that would allow participants to further deepen their skills in the four key areas).

FULL FEE

\$500

(Subject to 9% GST)

NETT FEE AFTER FUNDING

\$163.50

SME OR Singaporean age
40 and above (Subject to
9% GST)

70% Course Fee Funded

\$63.50

Non-SME OR Singaporean
age 21 to 39 OR Singapore
PR

(Subject to 9% GST)

50% Course Fee Funded

Subsidies Available
Individual

SkillsFuture Credit
UTAP



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Course Content

Learning Unit 1: Data Analytics

- Introduction to SFDW
- Digital Skills and Jobs Awareness for the Built Environment Sector
- Importance of Data Analytics for the Built Environment Sector
- Use data analytics and visualisation tools such as Excel PivotTable and Power BI to analyse construction costs

Learning Unit 2: Automation

- Introduction to Automation in the Built Environment sector
- Programmable Automation (3D printing and additive manufacturing tools for fabrication of parts and 3D printed housing)
- Using Power Automate to improve work process productivity
- Artificial Intelligence in the Built Environment sector
- Autonomous Robots and Internet of Things in Built Environment
- Future trends for automation in the Built Environment sector

Learning Unit 3: Cybersecurity Risk

- Introduction to Cybersecurity Risk
- Areas of cybersecurity risk and its implication and effect to the individual and organisations in the Built Environment sector
- How to mitigate cybersecurity risks? (physical, software, policy and regulatory)

Learning Unit 4: In-demand Digital Tools

- Generative Artificial Intelligence such as ChatGPT in areas such as project planning, interpreting customer requirements, responding to queries, provide information on regulations, building codes, etc.
- Conversational Automation, such as Google Assistant, chatbots in government and corporate websites (AskBecca for BCA, AskURA for URA, Ask HDB for HDB, etc.)
- Nationally launched applications
- Explore upcoming digital technology used in Built Environment
- Develop a learning plan to take ownership of own skills upgrading

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