



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Fakulti
Alam Bina dan Ukur

AKTIVITI KESELAMATAN & KESIHATAN PEKERJAAN 2022

WEBINAR: TECHNOLOGY ENHANCED SAFETY MANAGEMENT AND WHAT IS NEXT? FAKULTI ALAM BINA DAN UKUR 2022

Tarikh: 27 April 2022

Platform: Webex



FACULTY OF BUILT ENVIRONMENT & SURVEYING

WEBINAR :
TECHNOLOGY
ENHANCED SAFETY
MANAGEMENT AND
WHAT IS NEXT?



TIME : WEDNESDAY, 27TH APRIL
2022, 10AM - 11AM
VENUE : WEBEX

Speaker :



LAI YU TIAN

Yu Tian has 15 years of experience in building and civil construction. She has worked for various sizes of organisations, and has worked abroad in Cambodia for 2.5 years and in New Zealand for 6 months.

Her expertise includes Occupational Health and Safety Management, Quantity Surveying, Site Coordination, Quality, and ISO Management Systems.

She is the first women in Malaysia awarded for "Site Personnel" category in MBAM Safety and Health Award 2016.

Free Admission !
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ORGANISED BY:  **BIM** RESEARCH GROUP

CO-ORGANISED BY:  **CELP** CONSTRUCTION ECONOMICS, LAW AND POLICY RESEARCH GROUP

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Technology Enhanced Safety Management in Construction and What's Next?

By Sharon Lai Yu Tian
27 April 2022 (Wednesday), Webinar

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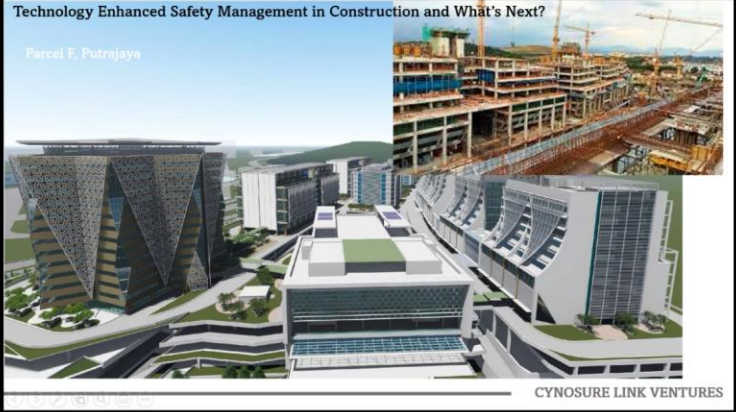
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Parcel F. Putrajaya

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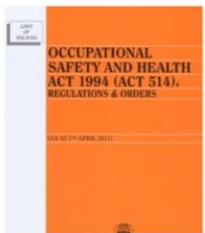
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1. Administrative

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- For Project: "Project A" without the role in question
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2-Machinery

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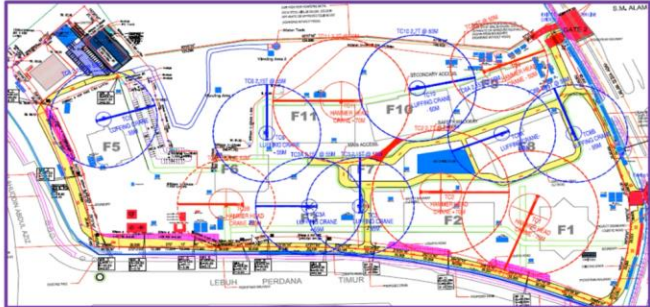
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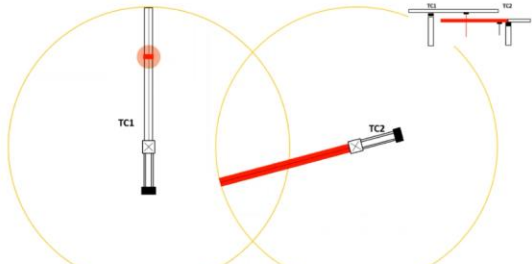
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Scenario 1: Possible Collision Between Hammer Head Cranes

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3. Logistic/Transportation

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Technology Enhanced Safety Management in

4. OPERATIONAL -Paperless



It all boils down to identifying issues as they happen, addressing them before they become bigger problems that impact the project deadline and budget, your reputation, a most importantly--the safety of job site workers and end u



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01/02/2017
Web 1



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- 75% +

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9. Safety Requirement into Process

The diagram shows a top-down view of an excavation site. A yellow excavator is positioned at the edge of the pit. A large pile of excavated material is shown being moved away from the edge. A worker is visible on a set of stairs leading down into the excavation. The bottom of the excavation is reinforced with a grid of circular supports. Orange and white striped barriers are placed around the perimeter of the work area.

EDGE PROTECTION MUST BE A MINIMUM OF 200mm FROM THE EDGE OF EXCAVATION

EXCAVATED MATERIALS TO BE KEPT AT A SAFE DISTANCE FROM THE TOP OF EXCAVATION

NO SWING GATES TO BE USED ON ENTRANCES TO EXCAVATION STAIRS

A TEMPORARY WINDS DESIGN IS NEEDED TO FIND THE ANGLE OF EXCAVATION

EXCAVATION STAIRS TO BE SUPPORTED AT BOTH ENDS AND UNDERPINS

WOODEN STOP BLOCKS TO BE USED BETWEEN TRUCKS AND THE EXCAVATION

WATER FILLED BARRIERS OR CONCRETE VIB'S MUST BE USED BETWEEN A TRAFFIC ROUTE AND EXCAVATIONS

Excavation Works

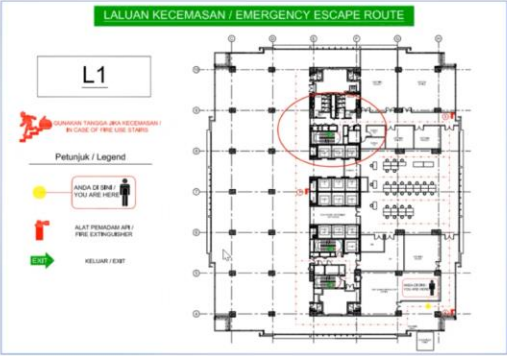

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6. Emergency Route



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7. TRAINING



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Case Study 1

HIRARC

HI- HAZARD IDENTIFICATION
RA- RISK ASSESSMENT
RC- RISK CONTROL



1. Hazard Identification			2. Risk Analysis			3. Risk Control		
Work Act.	Hazard	Effect	Ex. Control	Likelihood	Severity	Risk	Reco. Ctrl. Measure	PIC
Brick Work	Floor Opening	Fatality	Nil	2	5			
	Unattended Loose Material	Serious Injury						

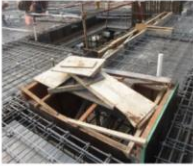







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Floor Opening

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Speaking: Nafisah Abdul Rahman (Co-host), SHARON...

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8. Visualisation on Logistic

22/05/12 Week: 8



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Technology Enhanced Safety Management in Construction and What's Next?

9. Better Planning, More Accurate and Accessible of information reduce Re-do and Re-Work



BIM ensures consistency and coordination throughout the building's life cycle, from design to recycling.

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Challenges



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SHARON LAI YU TIAN (C)

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Email: sharonlaiyt@gmail.com
Contact Number: 012-300 8068

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SHARON LAI YU TIAN



SHARON LAI YU TIAN







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Dr Farah Nadiyah AR



Fara Diva



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Fara Diva: Congrats Dr Nep & organisers