

WEBINAR

DEVELOPMENT AND IMPLEMENTATION OF UNSAFE ACT UNSAFE CONDITION DIGITAL REPORTING SOLUTION

SATURDAY | 23 OCTOBER 2021
11:30AM - 01:30PM MYT

Organised by
CHEMICAL ENGINEERING TECHNICAL DIVISION

BEM APPROVED CPD HOURS: 1.0
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SPEAKERS:

**Ir. Dr. Chan Tuck Leong &
Mr. Wee Mok Siong**



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IEM Members: RM15

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SYNOPSIS

Ensuring everyone goes home safely at the end of each workday is the top priority of PETRONAS. PETRONAS operations across 50 countries are exposed to Health, Safety, Security & Environment (HSSE) risks that may disrupt business continuity and result in injuries, or even fatalities. Since 2019, the organization has embarked on a digital transformation journey in HSSE with the aim to create generative HSSE culture in PETRONAS.

HSSE Unsafe Act Unsafe Condition (UAUC) aims to improve HSSE reporting to enable early identification of at-risk behaviors, with timely intervention and prompt sharing across the group. In the past years, UAUC observations were submitted manually, resulting in long hours for safety personnel to collect and analyze data. UAUC capture tool, now widely used throughout the organisation, is introduced on web and mobile app, enabling users to conveniently capture UAUC observations on-site. This has significantly improved timely identifications and reporting of at-risk behaviours and situations.

Safety personnel and management on the other hand can now leverage on the analytic models that are developed in house to derive pattern and insights from over 800,000 UAUC submitted reports in order for decision-making, proactively identify high risk behaviours, highlight top hazards and take prompt actions. To date, the HSSE UAUC analytics models are able to identify high over 100,000 Unsafe Act & Unsafe Condition Reports that are at high risk, enabling site safety engineers to provide timely intervention and providing a safer environment for everyone to work in. With the third release in plan, the upcoming model can prescribe corrective action before accident occurs, providing users with prescriptive analytics for an even safer environment.

ABOUT SPEAKERS



Ir. Dr. Chan Tuck Leong is one of the Digital Accelerators in PETRONAS. He currently leads the digital program that aims to improve safety, reliability and efficiency of operating plant facilities. He and his team partner with the businesses to pilot and scale digital initiatives and more importantly, introduce and embed new ways of working. Dr. Chan holds a PhD in Chemical Engineering and is a registered Professional Engineer with the Board of Engineers Malaysia.



Mr. Wee Mok Siong is currently a product manager in Digital Portfolio, Group Digital, PETRONAS. He was a Graduate in Chemical Engineering from UTP majoring Process Safety. After joining PETRONAS, he led multiple big data analytics projects for Health, Safety, Security & Environment projects in order to mitigate risk that may disrupt business continuity which might result in injuries and fatalities. Since then, the projects managed to improve generative culture and improve safety performance within the PETRONAS environment.