



HALLIWELL

KWOK WAI KIT, M.Eng,

[SENIOR FORENSIC ENGINEER / FIRE INVESTIGATOR - ASIA

KUALA LUMPUR, MALAYSIA

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SPECIALTIES

- Fire & Explosion
- Metallurgy and Failure Analysis
- Vehicle, Watercraft & Machinery Fires
- Expert Opinion

BIOGRAPHY

Kwok is an experienced Forensic Engineer who has performed over 300 investigations across multiple disciplines such as Metallurgy, Failure Analysis, Fire and Explosion, Marine and Watercraft, Rust and Airborne Contamination.

Conducted investigations into the corrosion and waviness of shipments of hot-rolled steel sheets and coils. Determined the cause and extent of corrosion and physical damages to the shipments of hot-rolled steel sheets and coils. Conducted fires and explosions investigations throughout Malaysia and Indonesia at Palm oil mills, construction sites, factories, petrochemical plants and steel mills.

Kwok is skilled in identifying fatigue (mechanical, thermal & corrosion), defective weld, general corrosion, pitting, erosion, stress corrosion cracking, intergranular corrosion, sensitization, sigma phase, graphitization, spheroidization, creep, dealloying, brittle failure, ductile overload, wear, embrittlement, arcing (copper wires) and short-term and long-term overheating (boiler tubes). While providing consultancy on aspects of materials, metallurgical and corrosion failure analyses to the Oil & Gas industry including PETRONAS, PRefChem, ExxonMobil, HRC, SVP, KPOC, CPOC, SGS, and TUV.

QUALIFICATIONS

- Registered Professional Technologist with Malaysia Board of Technologists (MBOT)
- Registered Graduate Engineer with Board of Engineers Malaysia (BEM)
- Bachelor of Engineering (Honours): Metallurgical Engineering, University of Malaysia Perlis (UniMAP) – 2014

INDUSTRY MEMBERSHIPS

- Professional Membership with Institute of Materials, Minerals and Mining (IOM3), United Kingdom (UK)
- Professional Membership with Institute of Materials, Malaysia (IMM)
- Graduate Membership with The Institution of Engineers Malaysia (IEM)

PROFESSIONAL EXPERIENCE

- Halliwell, Senior Forensic Engineer/Fire Investigator - Asia (2025 – Current)

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- Forensic Services (M) Sdn Bhd, Manager/ Consulting Metallurgist (2015 – 2025)
- Quasi-S Technology Sdn Bhd, consulting Metallurgist (2019- 2020)
- Matcor Technology and Services Pte Ltd, Failure Analysis Engineer (2014- 2015)