



PROFILE

Mr. Cheam is a graduate electrical engineer, having obtained his Bachelor of Engineering (Electrical) degree from the University of New South Wales, Australia. He is an experienced and certified fire and explosion origin and cause investigator (CFEI), a certified fire investigation instructor (CFII), and a forensic engineer. He has carried out numerous forensic investigations and damage assessment cases.

Prior to joining LWG, Mr. Cheam spent six years as Lead Engineer in the steel industry, where he carried out a wide range of responsibilities, including: steel process, electrical furnace, electrical projects, electrical power systems (transformer, switchgears, etc.), design and modification of electrical equipment and machinery, managing and carrying out the installation, testing and fault finding of electrical and mechanical equipment. He managed a team of approximately 22 technician personnel.

Prior to working in the steel industry, Mr. Cheam worked in the electrical cable manufacturing industry as an engineer where he carried out a wide range of responsibilities, including: cable process, electrical equipment and machinery, design and modification of electrical equipment and machinery, managing and carrying out the installation and maintenance, testing and fault finding of electrical and mechanical equipment. He was also involved with investigation of cable product failures and product quality.

Mr. Cheam also has significant energy management / energy savings experience with heavy equipment systems, motor drives, inverters, solar power systems, system monitoring and control. Energy management projects he was responsible for generated savings of over \$1million.

Mr. Cheam has significant safety training and safety management experience, including: Process Safety Management (PSM), Process Hazard Analysis (PHA), Process Safety Information (PSI), Contractor Safety Management (CSM), Incident Investigation (II), Risk Assessment (RA), Stop Audit (STOP), Work at height (WAH).

- ▶ 20+ years of industry experience, including heavy electrical experience, involving transformers, switchgears, electrical cables (high/low voltage in Singapore, China, Taiwan, Brunei, Indonesia, Korea & Trinidad & Tobago), rotating electrical machines, VSD, inverters, lifts, PLC systems and others.
- ▶ Forensic engineering origin and cause investigations.
- ▶ Mechanical equipment and machinery experience, including pumps, hydraulic systems, furnaces, other heavy industrial machinery, and manufacturing machinery and equipment.

EDUCATION

Bachelor Degree in Electrical Engineering

University of New South Wales, UNSW, Sydney, Australia

Diploma in Electrical Engineering

Ngee Ann Polytechnic, NP, Singapore

Industrial Technician Certificate (ITC) in Electrical Engineering

Institute of Technical Education, Macpherson, Singapore

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WEBSITE

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CERTIFICATIONS

Certified Fire & Explosion Investigator (CFEI)
National Association of Fire Investigators (NAFI, USA)

Certified Fire Investigation Instructor (CFII)
National Association of Fire Investigators (NAFI, USA)

PROFESSIONAL AFFILIATIONS

- ▶ Member of NFPA (National Fire Protection Association)
- ▶ Member of NAFI (National Association of Fire Investigators)

PRACTICE AREAS

- ▶ Fire and explosion origin and cause investigations
- ▶ Electrical & mechanical failure analysis
- ▶ Electrical, & mechanical machinery and equipment damage assessment

PROFESSIONAL BACKGROUND

2012 – Present: Envista Forensics, formerly PT&C|LWG – Singapore

Technical Consultant

2006 – 2012: NatSteel Holding, formerly NatSteel Asia – Singapore

Lead Engineer

2004 – 2006: Sigma Cable – Singapore

Engineer