Forensic Services

40 ANNIVERSARY

Company Profile

Commitment | Integrity | Excellence

Presented by Forensic Services Malaysia

About Us

Forensic Services

Established in 1986, Forensic Services (M) Sdn Bhd [Company No. 198601007340 (156528-W)] is a leading independent forensic investigation company specializing in fires, explosions, and engineering failures across Asia. Our mission is rooted in commitment, integrity, and excellence, driven by a clear purpose: *uncovering the truth and delivering clarity* in every investigation we undertake.

With more than 6,000 in-house case histories, our multidisciplinary team of forensic consultants provides comprehensive expertise in fire and explosion investigation, electrical and mechanical failure analysis, metallurgical analysis, damage assessment, vehicular collision reconstruction, and risk assessment. We combine deep industry knowledge with scientific rigor to support insurers, legal professionals, and industrial clients across the region.

Our capabilities are strengthened through continuous investment in technology and people. The forensic laboratory is equipped with advanced metallurgical instrumentation, gas chromatography systems, 3D imaging technology, and drone-assisted documentation tools, enabling first time right investigations.

At Forensic Services, we are committed to delivering accurate and actionable insights, empowering stakeholders to make informed decisions when it matters most.

Forensic Services

Our Services

Commitment | Integrity | Excellence

1. Root Cause Investigation
2. Damage Assessment
3. Vehicular Collision Investigation
4. Accredited Laboratory Services
5. Risk Assessment

Forensic Services

Fire & Explosion Investigation

Origin and Cause, On-site Examination, Desktop Review

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Forensic Services

Mechanical Failure Investigation

Maritime, Land, High Hazard Industries

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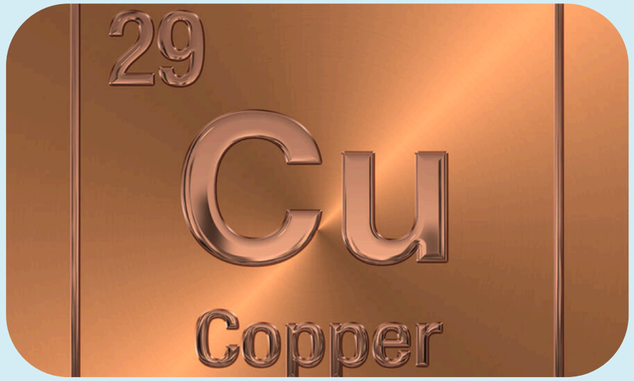
Forensic Services

Metallurgical Analysis



Fractography

Fracture surface examination

Chemical Composition Analysis

Comparative verification

Microstructural Examination

Micron and electron level

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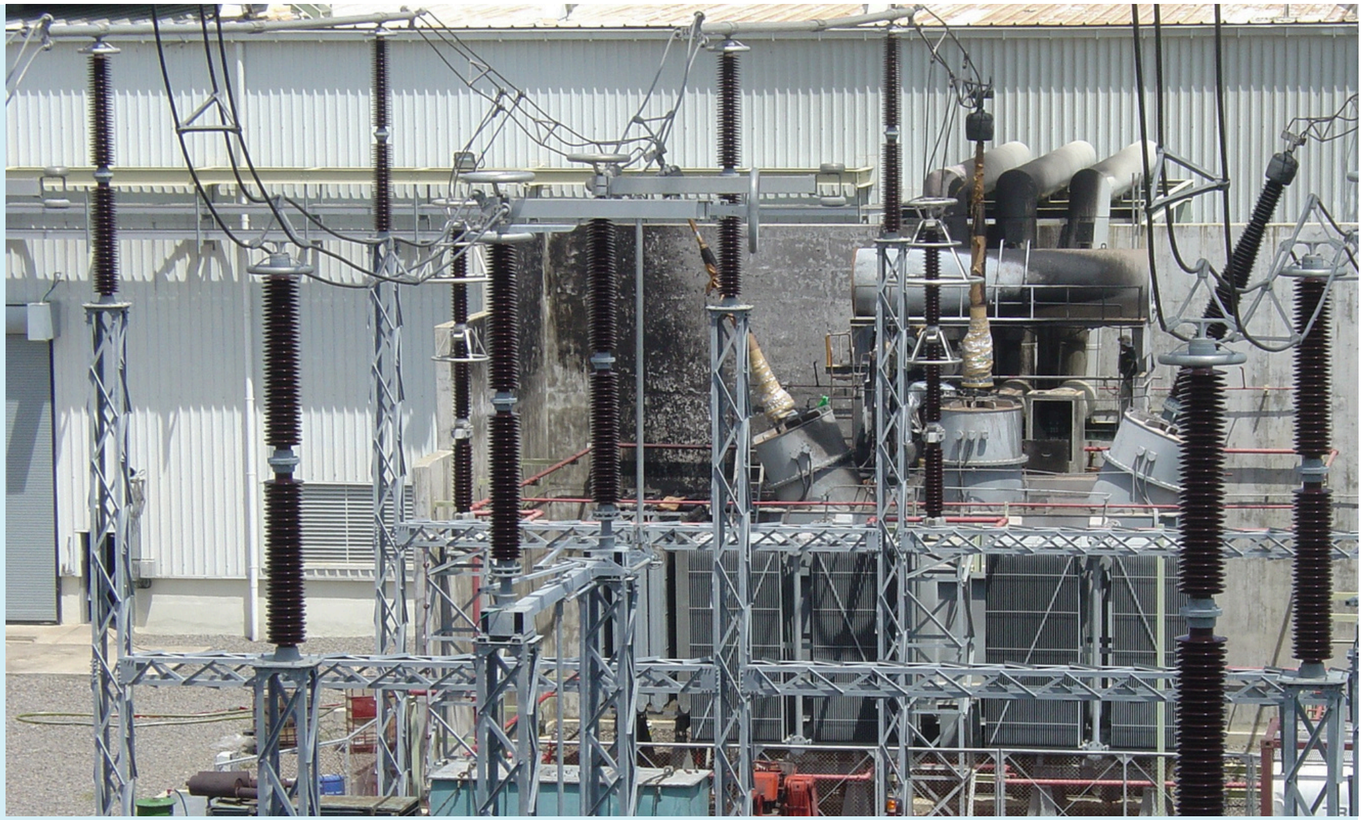
Electrical Failure Investigation

Solar farm, data centre, wind turbine, transformer, switchgear, furnace, tank

Arcing, earth fault, lightning, operator error, poor workmanship, manufacturing defects



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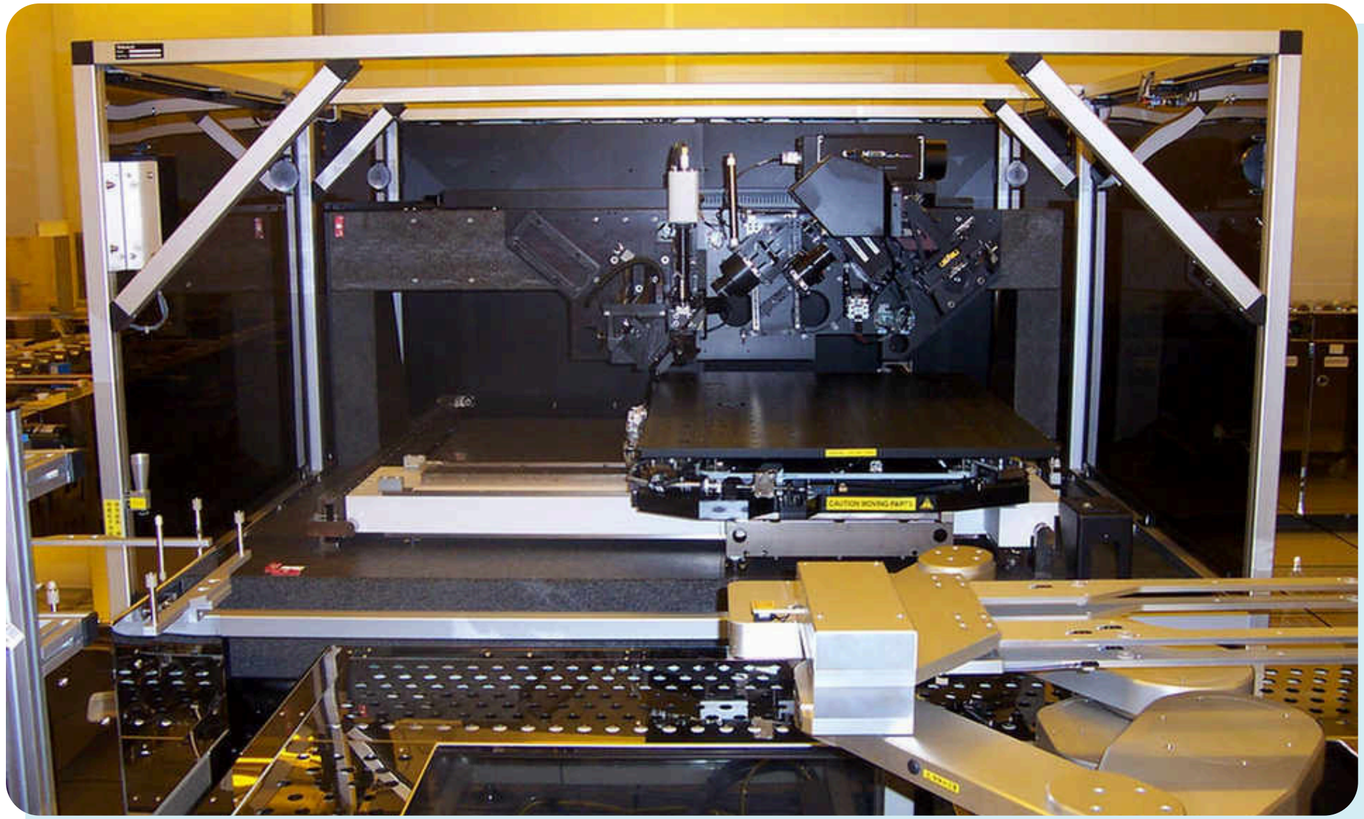

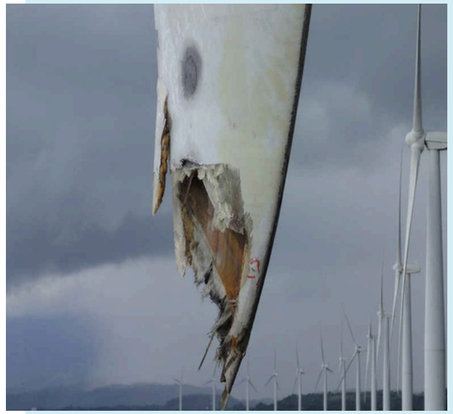

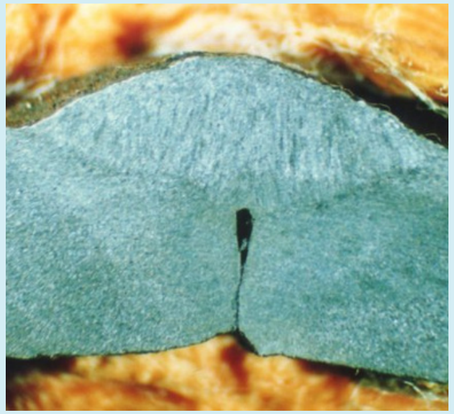

Non-Marine Damage Assessment

Furnace, Pressure Vessel, Crane, Reactor, Generator, Chiller, Wind Turbine, Industrial Pipes, Boiler Tubes, Lift, Escalator, Poultry Farm, Sawmill, Racking

Windstorm, Lightning Strike, Flood, Theft, Vandalism, Fire, Smoke, Explosion, Falling

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Marine Damage Assessment

Steel Coils, Precision Machine, Goods in Transit, Dangerous Goods, Cargoes, Chemical Drums, Containers, Reefers, Bulk Carriers, Tankers.

Inherent Vice, Collision, Improper Cargo Handling, Fire, Wetting, Leaking, Contamination, Corrosion, Poor Stowage, Insufficient Lashing/Securing

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Forensic Services

Vehicular Collision Investigation

Scene Reconstruction, Damage Consistency, Computer Simulation, Paint Flake Analysis, Verification of Chassis Number, Engine Failure

Virtual CRASH 6
Accident Reconstruction Software

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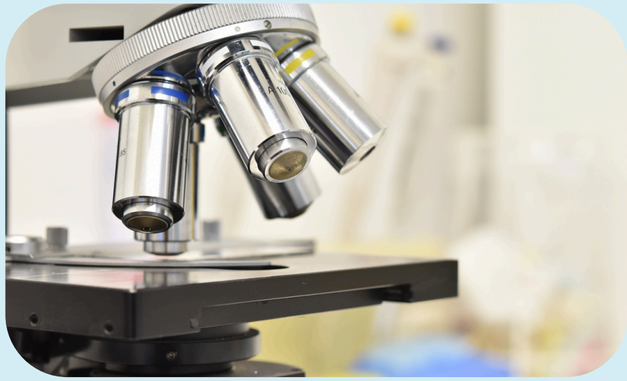
Forensic Services

Laboratory Services



Microscopy

Visual and Microscopic Examination

Fire Debris Analysis

Ignitable Liquid Residues Determination

Non-Destructive Test

Dye Penetrant and Magnetic Particle Crack Detection

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Forensic Services

In-House ISO* Accredited Laboratory

Testing	Method
Fire debris	ASTM E 1412-19 Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Passive Headspace Concentration with Activated Charcoal
	ASTM E 1618-19 Standard Test Method for Ignitable Liquid Residues in Extracts from Fire Debris samples by Gas Chromatography-Mass Spectrometry
Ferrous materials • Carbon Steels • Low Alloy Steels • Austenitic Stainless Steels Non-ferrous materials • Copper and Copper Alloy	ASTM E3-11 (Reapproved 2017) Standard Guide for Preparation of Metallographic Specimens
	ASTM E3-11 (Reapproved 2017) Standard Guide for Preparation of Metallographic Specimens
	American Society for Metals (ASM) Handbook Volume 9: Metallography and Microstructures; 9th Edition, 1989.

*MS ISO/IEC 17025:2017

Forensic Services

Risk Assessment

Infrared Thermography Screening
Electrical Failure Evaluation

Mechanical Failure Evaluation
Process Safety Assessment

Material Integrity and Condition Assessment
Preventive Maintenance Planning

Occupational Safety and Health Check
Fire & Explosion Risk Assessment

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Forensic Services

Drone

Unmanned Aerial Vehicle (UAV)

Deployed for aerial survey of large & complex sites and tall establishment.

Fire & Explosion Site Examination,
Cranes Inspection,
High-rise Building Inspection,
High-Hazard Processing Facilities Examination

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Infrared Thermography Device

Non-invasive imaging techniques to visualise the emittance of thermal energy from objects.

Deployed for commercial and industrial establishment inspection.

Electrical system monitoring - Signs of overheating
Building inspection - Presence of moisture
Machine condition monitoring - Abnormal heat pattern

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Forensic Services

Virtual CRASH 6
Accident Reconstruction Software

Computer Simulation

Scene Reconstruction using physics-based module to achieve momentum-based collision analysis.

Multi-vehicle and articulated transport collisions

Motorcycle dynamics and rider kinematics

Pedestrian and cyclist impacts

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Forensic Services

Court Experiences

Expertise

Experienced subject matter experts for courtroom testimony

Accuracy

Precise and reliable findings to support legal team

Credibility

Evidence-based reports which are admissible in court

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Forensic Services

Industries Served

We are renowned to have assessed the damage and investigated fires and failures for the stakeholders in the Asia region.

- I for Insurance
- R for Reinsurance
- P for Power & Utility
- A for Automotive
- O for Oil and Gas
- M for Marine/Maritime
- L for Legal
- * All other industries such as Construction, Manufacturing, Chemicals, etc

Forensic Services

#1

Pioneering forensic service provider in Malaysia

40 years

Established name in the forensic services industry

> 6,000

Cases investigated

Forensic Services

Our Presence

We delivered our forensic services not only to the ASEAN countries such as Malaysia, Singapore, Indonesia, Vietnam, Philippines, and Thailand, we also served the clients from Japan, South Korea, Australia, and USA.

Forensic Services

Contact Us

Your most trusted forensic services provider.
Uncovering the truth, delivering clarity.

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