



**COMPETITIVE ADVANTAGE**



**EFFICIENCY**



**FURTHER EXCELLENCE**



**COMPLIANCE**



**RISK MANAGEMENT**

# REMOTELY PILOTED AIRCRAFT SYSTEMS (RPAS)

**SAFETY, COMPLIANCE AND RISK MANAGEMENT SERVICES**

Around the world, many diverse industries are recognising the benefits of using Remotely Piloted Aircraft Systems (RPAS), (also referred to as Unmanned Aerial Vehicles (UAV), Unmanned Aircraft Systems (UAS) or drones), to perform commercial inspection and monitoring operations that have previously required either using conventional aircraft, personnel working at heights and/or in dangerous situations.

RPAS offer a new way of collecting valuable data and imagery, and if correctly implemented they can enhance cost efficiency, lower the risk to personnel and, in most cases, have more accuracy.

However, while a Remotely Piloted Aircraft (RPA) carries no human life, they are not without risks of their own. Mishap rates in RPAS have been identified as up to 300 times greater than conventionally piloted aircraft.

Even a minor mishap has the potential to result in direct and indirect injury or death, equipment damage, plant shutdown, electrical flashovers and productivity loss. Damages are potentially significant, representing upwards of hundreds of thousands of dollars per hour. Therefore, professional aviation safety standards, training and risk management strategies are imperative for continual safety performance and assurance.

## RPAS RELATED SERVICES

### RPAS Standards

The SGS RPAS Standards 2014 are based on the ICAO RPAS internationally recognised standards and practices ICAO Doc 10019, ISO 3100 Risk Management Principals, Regional Civil Aviation Authority Regulations and recognised aviation best practice.

### Operations Manual and Training Support

SGS has produced a comprehensive RPAS Operations Manual. This manual may be used as a template for your operation, or as additional training and guidance material to support your existing operations manual.

### Online RPAS Risk Management Tool

Our interactive online RPAS Risk Management Tool is a world first of its kind.

The comprehensive risk assessment process is compliant to the ICAO SMM, OHSAS 18000, ISO 31000 and other regulations and standards. This process includes an interactive risk matrix that can produce Job Safety Assessments (JSAs) in minutes, and incorporates an online repository to store previous JSAs, as well as making them available to clients.

*"This tool is the back bone of our Safety Management System; it has helped in providing safety cases and gained approvals and contracts where others have missed out"* (Australian RPAS operator).

### RPAS Operational Audits

Auditing of aviation operations helps manage and lower the risk of an accident, protecting your personnel from harm, your operation from unscheduled downtime and your company from financial risk.

Audits are conducted against relevant legislation, industry best practice and/or any specific company RPAS standards.

### Synergy & Training

Airborne inspection tasks are some of the most dynamic and dangerous operations in aviation, regardless of flying a fixed wing aircraft, a helicopter or a RPA. This is particularly the case when operating in the live power-line environment, hot stacks and structures around gas and oil refineries, and in confined areas.

SGS HART Aviation offers courses in aviation Safety and Risk Management, Human Factors (HF) and Crew Resource Management (CRM), specifically developed for high risk and safety critical environments.

## WHY SGS?

SGS is the world's leading inspection, verification, testing and certification company. SGS is recognised as the global benchmark for quality and integrity. With more than 80,000 employees, SGS operates a network of over 1,650 offices and laboratories around the world.

SGS offers audit and consulting services to enhance our customers' business processes and help them to deliver extra value, improve quality management and performance, minimise risk and gain competitive advantage.

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**TO FIND OUT MORE CONTACT US AT  
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