AIRPORT / AERODROME SAFETY MANAGEMENT SYSTEMS (SMS)

QualaTech Aero Consulting Ltd.

An international aviation consultancy group, providing services in:

Safety Management Systems (SMS), Management, Training, Change Management, Fatigue Management, Hazard Ident. & Risk Assessment, Safety Case, Harbour and Water Airport/Aerodrome Procedures, Emergency Response Procedures, Airports, Flight Operations, Compliance, Audits, Aircraft Maintenance Organisations (AMO), Human Factors, Manufacturing, Quality Assurance (implementation, design and audit), Training (QA, SMS, ERP, CM, HF, Haz. & Risk. Assessment).

The services offered by QualaTech-Aero Consulting Ltd. are focused on the aviation industry. However, the principles of Human Factors, Safety, and Quality, apply equally to any industry by reducing human error leading to personal injury and loss.

Safety Management is Business Management!

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"We can't solve problems by using the kind of thinking we used when we created them" Albert Einstein.

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A rigorous approach to Safety Management combined with adequate and appropriate training will significantly reduce errors, incidents, liability, injury and death. However, regulation should not be the primary reason for implementing a SMS; Safety is really a Business Case in itself. QualaTech has implemented many Airport / Aerodrome SMS effectively, on time and to budget. QualaTech Consultants understand your business and your concerns; by learning your unique operational methods QualaTech can provide the correct solution. A SMS must be designed to work within a functional operation. QualaTech's Consultants have extensive Airport experience with personnel having held senior posts with ICAO, IATA, other leading aviation organizations, service companies, international airport and Civil Aviation Authorities and Tribunals.

Typical SMS development and implementation services for an Airport consists of:

- → **SMS Gap Analysis (***to determine what components are already present and/or operational***)**
- → **Safety Management Systems Manual (SMSM) (***dedicated SMS Manual containing the SMS)***
- → **Quality Assurance Programme Manual (QAPM) (***dedicated Quality Assurance Manual)***
- → **Safety Assurance Process (Hazard ID & Risk Assessment) (***workshop/training & application)***
- → **SMS & Quality Assurance Training (***specific formal training to meet all program applications)***
- → **Human Factors Awareness Training (HFAT) (***fundamental to a robust SMS program).***

QualaTech Aero Consulting Ltd. has developed an Airport SMS that:

- → **Is practical, robust, pragmatic and user-friendly**
- → **Is priced to account for limited operational budgets**
- → **Will fit into the operational management and existing Safety system framework**
- → **Is sufficiently robust to satisfy ICAO criteria and other Authorities (i.e. CAA, TC, FAA. etc.)**
- → **Takes full advantage of existing software**.

SMS Gap Analysis: A Gap Analysis (GA) is essential to the SMS implementation process. A professional 3rd. Party GA is the most effective way to determine existing SMS elements and subsequently, identify those that may be required. Regardless of the Authority under which you need to implement (FAA, Transport Canada, CAA or ICAO etc., a GA will accurately assess your unique & particular situation by identifying not only what is already in place and functional but more importantly, what needs to be implemented (the Gap). The GA is also the primary document from which the Project Plan should be derived.

Safety Management Systems Manual (SMSM): The SMSM is vital to a SMS. QualaTech designs SMS manuals that complement either the Transport Canada 6 Part Protocol or the ICAO Protocol; more specifically, QualaTech will design a system to suit your aerodrome—while encompassing the specific operational requirements for SMS.

Quality Assurance Programme (and) Manual (QAPM): The QAPM is an integral component of any properly implemented SMS (e.g. Ref. TC CAR 302.503). QualaTech QAP manuals are designed and tailored to suit the individual aerodrome operation. Each QAP designed by QualaTech is specific, pragmatic, unpretentious robust and realistic, taking into consideration regulatory, operational and SMS quality requirements.

Safety Assurance Process (Hazard ID & Risk Assessment): The ICAO requires that Regulatory Authorities ensure that Certificate Holders include Safety Assurance as a component of a SMS, specifically, a process employing a Risk Management System. QualaTech will establish a pragmatic Safety Assurance Process meeting the National requirements, but more importantly - the requirements of the client.

QA/SMS Training: The purpose of a SMS/QA training is to provide the Client with a concentrated overview of QA/SMS requirements. The course focuses on SMS/QA principles, requirements and practices and also introduces practical procedures for implementation, dealing with documentation and policy. SMS/QA training is a TC requirement, whether provided in-house or by an external agency.

Human Factors Awareness Training (HFAT): The primary purpose of HFAT is to identify the effect of Human Factors [*the scientific study of the interaction between people and machine*] within the work environment. Additionally, HFAT provides a correlation between HF and a SMS, focusing on human error, avoidance elimination of 'Error and Loss' and subsequent consequence. The course introduces HF philosophy, enabling the participant to appreciate that Error and Loss are both highly preventable and within his/her ability to control, thereby helping to reduce the world's annual estimated ten billion dollar insurable loss rate.