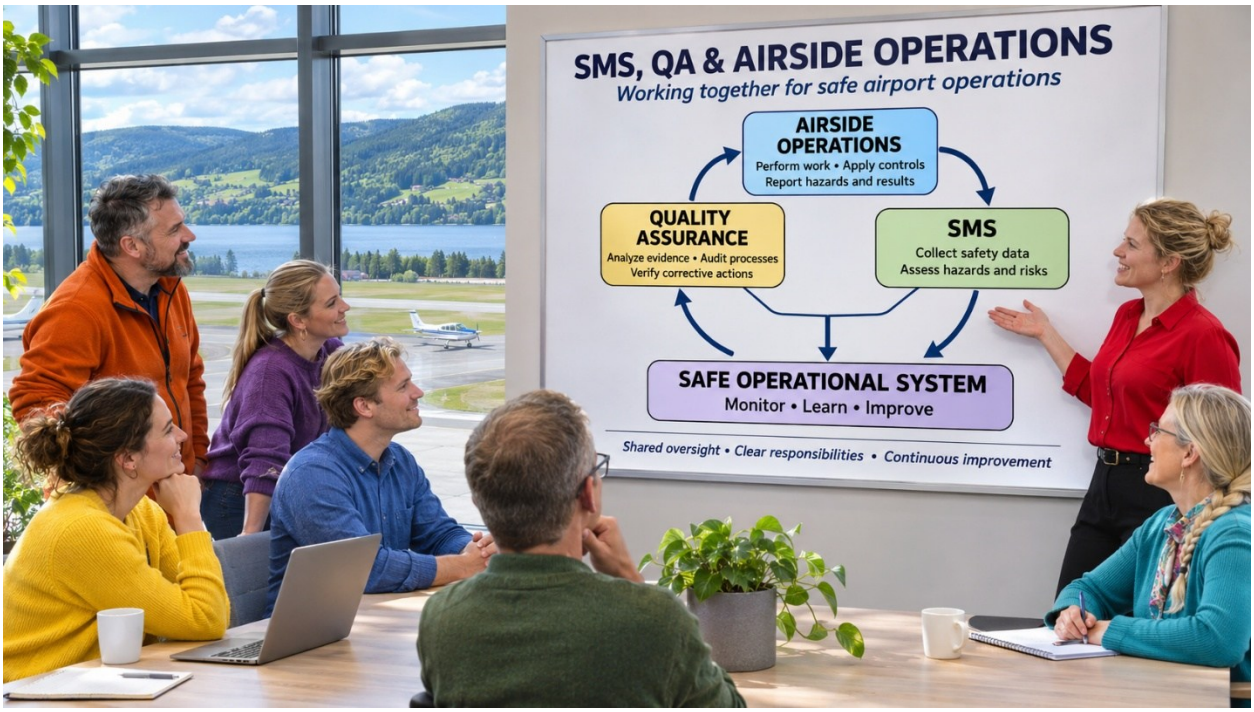
CARBON LAKE STRATEGY BUSINESS SOLUTIONS

Didrik Strand | (587) 257-2460 | offroadpilots@gmail.com



SAFETY MANAGEMENT SYSTEM

AIRPORTS - AIRLINES - CONSTRUCTION

OTHER SAFETY CRITICAL INDUSTRIES

SMS QA AIRSIDE OPS

Didrik Strand | (587) 257-2460 | offroadpilots@gmail.com

TABLE OF CONTENTS

SMS QA AIRSIDE OPS 3

CARBON LAKE STRATEGY BUSINESS SOLUTIONS

Didrik Strand | (587) 257-2460 | offroadpilots@gmail.com

SMS QA AIRSIDE OPS

A Safety Management System (SMS) is a structured approach to identifying hazards, managing risks, and continually improving safety at Canadian airports. It connects management responsibilities, employee participation, operational procedures, training, and safety reporting to support safe airport operations.

SMS and Quality Assurance (QA) work together as complementary oversight programs across all airport activities that affect safety. These include airside maintenance, runway inspections, snow and ice control, wildlife management, vehicle operations, contractor activities, and emergency preparedness. Together, they help management understand what is happening, identify weaknesses, and determine whether corrective actions are effective.

Within this relationship, SMS serves as a key data collection tool, gathering information through employee hazard reports, incident reports, inspections, operational observations, and safety performance monitoring. This information helps the airport identify existing hazards and recognize emerging risks before they contribute to an accident or incident. A strong reporting culture encourages employees to raise concerns and share practical knowledge.

QA serves as a key analysis and verification tool, using audits, reviews, and examination of records to assess whether activities follow established requirements and whether procedures and controls achieve their intended results. QA helps identify recurring deficiencies, weaknesses in processes, and underlying causes that require management attention.

These roles overlap: SMS also includes risk analysis and decision-making, while QA also collects evidence. Their value comes from working together. SMS helps reveal hazards and operational concerns; QA helps evaluate the processes used to control them. Management then uses the findings to assign responsibility, implement improvements, and verify their effectiveness.

An effective SMS and QA relationship creates a continuous cycle of collecting information, analyzing findings, taking action, and checking results. The objective is to strengthen human understanding, improve accountability, and ensure that airport activities consistently manage actual safety risks.