COMPANY PROFILE

At ASO International we are a focused company, specializing in the management, supervision, planning and certification of airside operations and facilities, with a particular emphasis on ensuring safety, risk management and compliance with international standards and national civil aviation regulations. We are dedicated to managing and integrating the airport’s complex airside safety management systems, reducing operational costs and ensuring regulatory compliance.

Our vision is to see our industry transformed... to make it safer, more efficient and sustainable.

Our employees currently work at airport locations in North America, Europe and the Middle East. We manage airside safety operations at Jeddah, Riyadh, Madinah, London Heathrow and Dubai international airports. We have also provided certification assistance at Jeddah, Madinah, Dammam, Vancouver and Phoenix international airports. In addition to our world-wide on-site airport operations, we have offices in London, Dubai, Tunisia and United States. We also have an office in Montreal, the nerve center of international civil aviation and home to ICAO, IATA and ACI, thus affording us ready access to officials and decision-makers of these organizations on a daily basis and keeping us up-to-date with the latest developments in civil aviation technology and regulation.

By leveraging our world-wide team with global expertise and a comprehensive operations and management infrastructure, we are able to reduce the cost of our expertise while improving the quality of service.
SERVICES

ASOI is a trusted partner in developing all documentation required for compliance with international best practice, including ICAO SARPs, and national civil aviation regulations. We also support our clients with several operations-related services:

- Implementation and management of operations
- Standard Operating Procedures (SOPs)
- Safety Management System (SMS)
- Certification assistance and airside advisory services
- Assessment and inspections
- Vehicle Tracking System (VTS)

We use advanced and innovative technology and integrated systems to capture and analyze all operational data; we are able to provide our clients with insights and comparisons with best practices to enable them to make investment and operational decisions with confidence.
STANDARD OPERATING PROCEDURES (SOPs)

- ASO International develops and implements Standard Operating Procedures (SOPs) according to international standards and national regulations.
- We review and update clients’ existing SOPs according to the requirements of real-life operations as well as local regulations.
- We have designed our SOPs to be obligatory and user-friendly for all ramp employees (clients, air carriers, ground service operators and other third parties operating on the apron).
- Our SOPs are linked to our Safety Management System and KPIs.
- We provide specific and dedicated training in the use of SOPs to all ramp employees.

6. Safe distance from aircraft with engines

Jet/propeller blast can cause serious damage.

Vehicle driver:

Step 1: Keep a safe distance as follows:

<table>
<thead>
<tr>
<th>Aircraft Type</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jet Aircraft</td>
<td></td>
</tr>
<tr>
<td>Front of a jet engine</td>
<td>within 7.5m</td>
</tr>
<tr>
<td>Rear of a jet engine running idle</td>
<td>within 150m</td>
</tr>
<tr>
<td>Propeller Aircraft</td>
<td></td>
</tr>
<tr>
<td>Front of a propeller</td>
<td>within 5m</td>
</tr>
<tr>
<td>Rear of a propeller on idle</td>
<td>within 50m</td>
</tr>
</tbody>
</table>

7. Vehicles in stand safety zone

Vehicle driver:

Step 1: Before entering the stand safety zone:
1. Do not block the marshaller or VOOS operator’s movement or sight line when an aircraft is moving.
2. Remain outside the stand safety zone until after the aircraft’s anti-collision beacons have stopped flashing and wheel chocks have been placed.

Step 2: In the stand zone:
1. Give right of way to passengers.
2. Keep a safe distance from aircraft.
3. Do not drive under the aircraft wings or fuselage unless authorized.
4. Do not pass between a parked bus and the aircraft.
5. Stay 3 m away from an aircraft, unless vehicle is for servicing the aircraft.
6. Stay 1 m from a refueling truck or fuel hydrant when an aircraft is being refueled.
7. If there is any damage, large or small, to an aircraft could have fatal consequences. Report any damage or suspected damage immediately to a supervisor.

Step 3: Parking in the stand safety zone:
SAFETY MANAGEMENT SYSTEMS (SMS)

- ASOI has developed a customized web-based integrated aviation safety management reporting system.
- We implement and deploy our integrated SMS at airport locations around the world.
- Our safety reporting system is linked to SOPs, international standards and national regulations and includes voluntary reporting capability.
- Our reporting system facilitates the implementation of mandated safety management systems to ensure regulatory compliance.
- Our SMS provides user-friendly dashboards and Safety Performance Indicators (SPIs) to enable management to identify, prioritize and deal with problems proactively.
- We provide training on our SMS for all stakeholders.
- We provide links to our clients’ executive dashboards and transparent data information.
- Our SMS is available for use on cellphones and iPads.

![SAFETY MANAGEMENT SYSTEMS (SMS)](image-url)
VEHICLE TRACKING SYSTEM (VTS)

- ASOI deploys one of the world’s leading tracking systems to provide unique vehicle monitoring and control, offering complete and round-the-clock surveillance of vehicle movement at airsides around the world.
- We install the system and provide training for users.
- Our VTS provides real-time reporting and a steady supply of detailed information on the location, speed, safety behavior and use of individual vehicles.
- The system not only monitors vehicle functions and operator-controlled actions, but it also provides baseline data for any hazard identification procedures.
- The data can be generated from any type of vehicle without any additional devices required and without affecting vehicle warranty due to installation.
- We provide dashboards and KPIs generated by the data captured by the system.
- The system exists in both desktop and mobile (iOS and Android) versions.
ASSESSMENTS AND INSPECTIONS

ASOI provides experts to assess airside infrastructure, facilities, procedures and systems, based on local civil aviation legislation and regulations, as well as international standards for aerodrome certification, such as ICAO SARPs (Annexes 5, 14, 19, etc.), ICAO Doc 9137, US FAR Part 139 and other leading international references. The assessment includes, but is not limited to, the following aspects:

- Airside geometry
- Apron configuration
- Airfield lighting
- Pavement marking
- Pavement condition and strength
- Airfield signage
- Airfield electrical systems
- Airfield drainage
- Operational assessments
- SMS Manual
- ERP Manual
- Aerodrome Manual
- SOPs

These assessments include identification of potential deficiencies, required improvements and mitigation measures, as well as an action plan to address any issues related to safety or non-compliance.
MANAGEMENT AND ADVISORY SERVICES

Based on ICAO Standards and Recommended Practices (SARPs) and other leading international references, ASOI provides management and advisory services, including but not limited to:

- General airside operations and management coaching
- Quality control of the operation and airside physical condition
- Support for the implementation of airside operations management
- Support for certification of airside operations and facilities
- Support for the ongoing deployment of operating procedures to ensure respect of the conditions of the certification documents
- Review and revision of documentation required for certification and compliance with applicable regulations
- Provision of on-site advisors for airside operations
- Preparation and implementation of ORAT plans
- Preparation of OPEX/CAPEX estimations
RELEVANT PROJECTS

Riyadh King Khalid International Airport: Private Aviation Terminal

- Started managing airside safety operations at the private aviation center at King Khaled International Airport in Riyadh in April 2017.
- Reduced significantly the number of incidents on the airside thanks to the implementation of our proprietary procedures and technology, including our SOPs, risk assessments, safety management system and information management software.
- Achieved a stable airside situation after putting into effect accurate and appropriate preventive and corrective measures.
- Significantly reduced the safety issues opened thanks to the improvements made by the team in preventive safety promotion program.
RELEVANT PROJECTS

Jeddah King Abdulaziz International Airport: Private Aviation Terminal

• Supported certification process.
• Started managing airside safety operations at the private aviation center at King Abdulaziz International Airport in Jeddah in April 2017.
• Significantly reduced the number of incidents on the airside thanks to the implementation of our proprietary procedures and technology, including our SOPs, risk assessments, safety management system and information management software.
• Achieved a stable airside situation after putting into effect accurate and appropriate preventive and corrective measures.
• Significantly reduced the number of safety issues opened thanks to the improvements made by the team in preventive safety promotion program.

London Heathrow International Airport

• Supported the implementation of airport extension while meeting the stringent UK Civil Aviation Authority certification requirements.
• Prepared required documentation and supported the certification.
RELEVANT PROJECTS

Madinah Prince Mohamed International Airport

- Developed the Prince Mohamed International Airport (PMIA) certification process: SMS, ADM and VTS (PMIA was the first certified airport in KSA).
- Installed VTS system with 450 apron vehicles tagged. Madinah Airport is the only airport in KSA having a VTS system.

Vancouver International Airport (Canada)

- Provided experts as part of airside management team to meet Transport Canada requirements.
- Supported the certification of the airport extension for 2010 Winter Olympic games.
- VTS installed as part of a risk mitigation plan.

Phoenix Skyport International Airport (USA)

- Managed the Low Visibility Procedures (LVP) at the airport to address and manage weather and sand storm events that disrupt traffic.
- Participated in implementation of FAA requirements, based on a risk assessment study for LVP conditions.
ASOI OFFICES AROUND THE WORLD

- Newark (USA)
- Montreal (Canada)
- Dubai (UAE)
- London (England)
- Tunis (Tunisia)

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