

PAKISTAN CAA-CATI PERIODICAL



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CIVIL AVIATION TRAINING INSTITUTE HYDERABAD

ICAO SAFETY OVERSIGHT WHAT IS ICAO AUDIT AND WHY IT IS IMPORTAT

Aviation Safety
Oversight

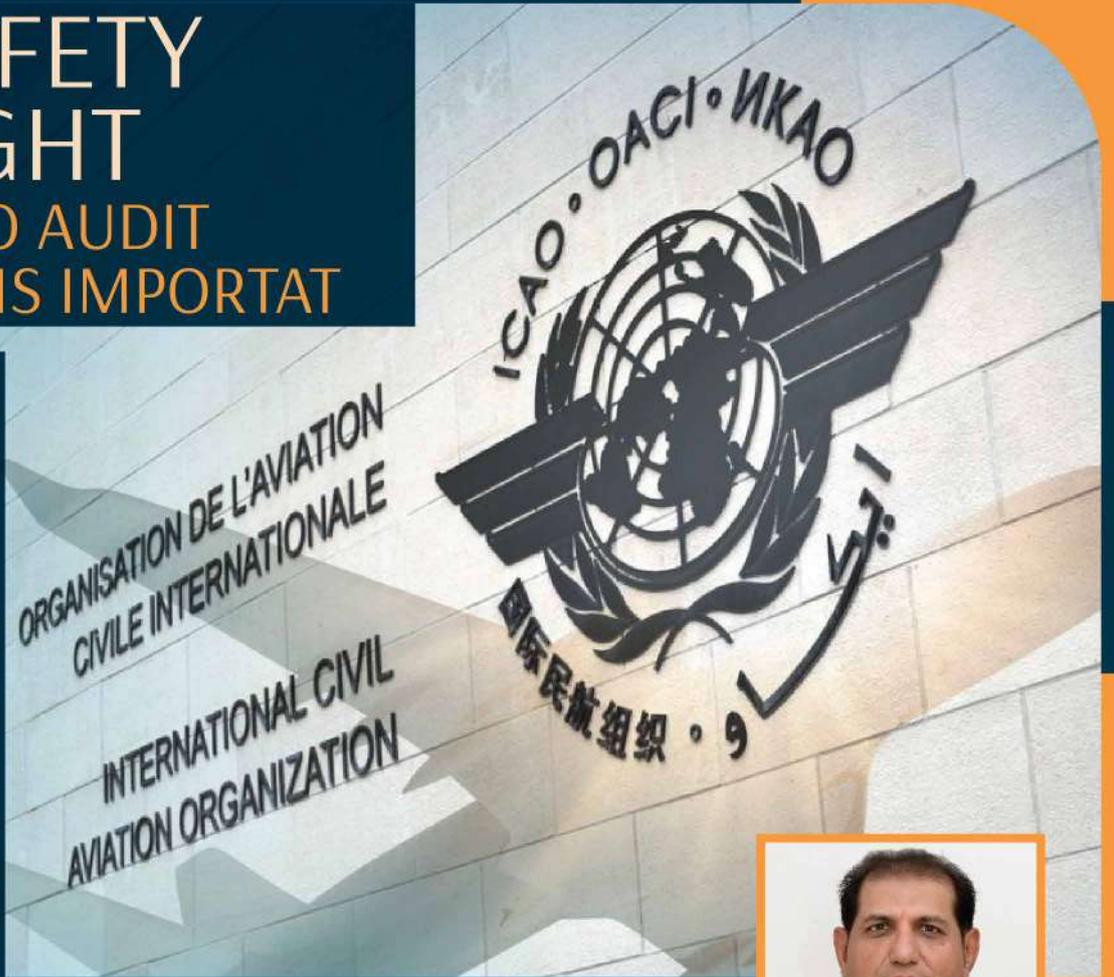
Aviation Safety
Reporting

Wisdom Shared
Journey

Transforming Aviation
Through Organizational
Culture

Upgrading CATI
Infrastructure

Aviation History



From The Editor Desk

Dear Readers,

I am delighted to share the latest edition of our quarterly periodical, crafted to keep you informed and engaged with developments in aviation. This issue's primary focus is on Aviation Safety, with feature articles on Aviation Safety Oversight—detailing ICAO's eight critical safety elements and Aviation Safety Reporting, providing data-driven insights aimed at making air travel safer.

Our article on Aviation History in the Subcontinent takes you through the second and concluding part of Pakistan's aviation heritage, with more historical perspectives promised in future editions.

We also highlight the 11th Experience Sharing Event and an impactful full-day CPD Seminar, each offering a collaborative platform for aviation professionals to share knowledge and drive industry progress. Additionally, this edition reflects on significant CATI events held in 2nd Quarter 2024.

Your feedback and 1,500–2,000-word article contributions are most welcome as we strive to enrich each issue with valuable insights from our readers.

Thank you, and happy reading!

Best Regards,

Nawaz Ahmed Sipra,
Chief Editor

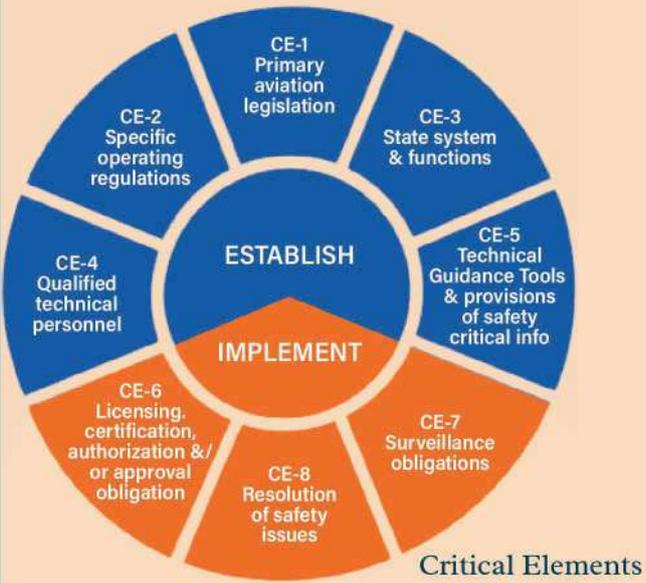
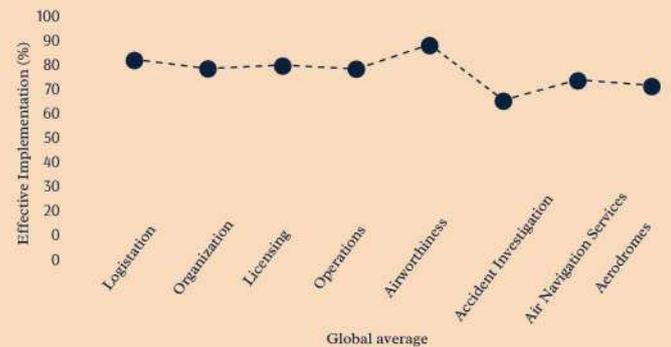
Safety Oversight

By Nawaz Ahmed Sipra,
Chief School of Air Navigation Services

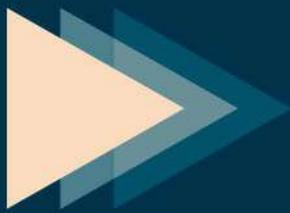
Aviation industry is broad and varied, requiring a delicate balance between different aspects of work that, when combined, form a system. With a system in place, a culture emerges within the organization, indicating the extent to which the organization is willing to not only define procedures or mechanisms but also execute them effectively.

ICAO ensures that member states have established procedures and mechanisms related to Civil Aviation by setting forth Standard and Recommended Practices. Members are expected to adopt these SARPs and elaborate on the mechanisms. The audit's objective is to assess a state's compliance with the SARPs. ICAO checks if the state has the required documentation to regulate the aviation industry and evaluates the state's level of compliance. Additionally, ICAO monitors how service providers are adhering to the regulatory procedures in place.

- Primary Aviation Legislation and Civil Aviation Regulations (LEG)
- Civil Aviation Organization (ORG)
- Personnel Licensing and Training (PEL)
- Aircraft Operations (OPS)
- Airworthiness of Aircraft (AIR)
- Aircraft Accident and Incident Investigation (AIG)
- Air Navigation Services (ANS)
- Aerodromes and Ground Aids (AGA)
- Audit Areas of Member States Aviation System



The Government of Pakistan and PCAA have jointly made extensive efforts to separate the operational and regulatory functions of the Pakistan Civil Aviation Authority. This initiative led to the creation of the Pakistan Airports Authority as the service provider and the Pakistan Civil Aviation Authority as the regulatory body. This segregation ensures effective regulation of the aviation sector without conflicts of interest and enhances compliance with ICAO's SARPs. This ongoing process emphasizes the need for both the state and service provider to establish practical mechanisms beyond mere documentation. These practical measures should benefit everyone involved, ultimately reinforcing the safety protocols in place.



AVIATION SAFETY REPORTING

Global economic activity is heavily dependent on Air Transport. By mid 2030s, we are expecting 200,000 departures and landings per day.

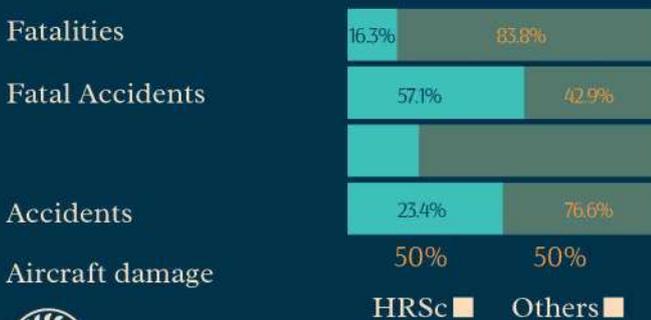
This task requires us to ensure safe and efficient traffic flow while consistently collecting and analyzing both flight and ATC operational data. This combined data provides insights into areas needing improvement and attention. Additionally, the systematic reporting of aviation safety data plays a crucial role, allowing for timely identification and resolution of potential hazards to maintain high safety standards.

G-HRCs (GLOBAL HIGH RISK CATEGORIES)

Based on actual fatalities, high fatality risk per accident or the number of accidents and incidents, as well as results from the analysis of safety data collected from proactive and reactive sources of information from ICAO and other non-governmental organizations, ICAO has identified five G-HRCs as global safety priorities. These categories are:

controlled flight into terrain (CFIT); • loss of control in-flight (LOC-I); • mid-air collision (MAC); • runway excursion (RE); and • runway incursion (RI).

Five year safety suggests that HRC's have remained a contributory factor in safety occurrences



Annual Safety Data

In 2010, the European Commission, U.S. Department of Transportation, ICAO, and IATA agreed to establish the Global Safety Information Exchange (GSIE) to enhance risk-reduction activities and improve global aviation safety by exchanging crucial information.

By Muhammad Arslan,
Deputy Director- ATS
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The GSIE harmonized accident rate is calculated as accidents per million sectors and covers both scheduled and non-scheduled commercial operations, encompassing ferry flights with a maximum takeoff weight (MTOW) exceeding 5,700 kg.

Annual Safety data of published by IATA suggests that the number of accidents per million sectors have remained less than two during the year 2023

Data spanning from 2005 to 2023 indicates that the highest number of accidents during flight phases has consistently occurred during the "LANDING PHASE," followed by the "TAKE OFF PHASE." Among recurring accidents, the most prevalent type has been "RUNWAY EXCURSION," with 25 out of 312 accidents resulting in fatalities. The most frequent undesired aircraft state leading to accidents has been "Abnormal Runway Contact." Common errors have included lack of adherence to standard operating procedures and issues during manual handling of primary flight controls. Regarding latent conditions, deficiencies in "Safety Management" and a lack of "Regulatory Oversight" have been identified. Despite technological advancements, the primary ongoing threat remained "Meteorological Factors."

We trust that this report has offered our readers a more profound understanding of the significance of safety management and safety analysis in aviation industry.

Wisdom Shared A Journey Through the Experiences of Aviation Leaders

The 11th captivating Experience Sharing Platform (ESP) event, held on the vibrant day of June 6th, 2024, at CATI Hyderabad's picturesque venue, unfolded as a remarkable and inspiring occasion. It became a harmonious blend of knowledge and motivation, where notable figures, esteemed guests, and eager participants gathered with a common purpose: to exchange valuable ideas, spark inspiration, and foster a continuous pursuit of learning and development. The session attracted an impressive gathering of aviation enthusiasts, trainees, educators, and officials from HQCAA and various airports.



The Chief Guest, Air Vice Marshal (Retd) Sajid Habib, former Deputy Director General of the Pakistan Civil Aviation Authority (CAA), delivered an engaging and thought-provoking address, reflecting on

both the current state and future potential of Pakistan's aviation sector. He began by providing a broader perspective on the significant growth the sector has experienced in recent years, despite the setbacks of Covid-19, and emphasized the immense opportunities ahead. He linked Pakistan's aviation sector to the global landscape, particularly highlighting the Asia-Pacific region as a key driver of future growth.

AVM (R) Habib underscored the importance of the International Civil Aviation Organization's (ICAO) goals, focusing on sustainable growth and the challenges related to aviation safety and security. He stressed that, to address global aviation challenges, Pakistan's CAA must remain proactive and adaptable, aligning with evolving international standards.

He also highlighted the critical role of training and human resource development in realizing these goals. He praised CATI's contribution to shaping the present and future generations of aviation professionals, emphasizing how its programs equip individuals to serve both Pakistan and the global aviation community. He stressed that continuous learning and skill development are fundamental for a thriving industry.

AVM (R) Habib further recognized Pakistan's strategic location as a hub for international aviation, expressing optimism about the country's future in the global aviation network. He highlighted that the nation's success depends on dedication, hard work, honesty, and integrity—qualities that should be embraced in both professional and personal life.

In conclusion, he reflected on the importance of patriotism and national pride, urging the audience to selflessly contribute to the betterment of Pakistan. Such a mindset, he noted, would not only advance the aviation sector but also bring positive change to all areas of life.

The event was graced by Air Vice Marshal (Retd) Sajid Habib, who served as Deputy Director General CAA from 2007 to 2009 and was invited as the Chief Guest. With a remarkable career in aviation and his profound knowledge of the industry, he was an ideal choice to deliver a compelling address that captivated the audience with both his wisdom and experience. The gathering also included two distinguished speakers, Mr. Muhammad Hanif Aurakzai, former Director of Airport Services and ex-Director of CATI, and Mr. Rashid Muhammad Hussain, former Airport Manager of Allama Iqbal International Airport Lahore. Both of these seasoned professionals shared valuable insights drawn from their years of service in aviation, offering enriching perspectives that resonated deeply with the participants. Their contributions added significant depth to the event's focus on learning and professional growth.



Mr. Rashid Muhammad Hussain, the former Airport Manager of AIAP Lahore, delivered an in-depth presentation, drawing from his vast experience in both operational and airport management. He stressed the vital role of continuous training and human resource development in ensuring seamless and efficient operations. In operational contexts, he highlighted the importance of following established standard operating procedures (SOPs). In airport management, he underscored the need not only to adhere to these procedures but also to remain adaptable, striking a balance between cost-efficiency and ensuring the highest level of service delivery in every unique scenario.

As his speech drew to a close, Mr. Hussain placed great emphasis on the importance of teamwork.

He highlighted how teamwork brings together diverse talents and perspectives, encourages collaboration and innovation, and ultimately drives the accomplishment of shared objectives.

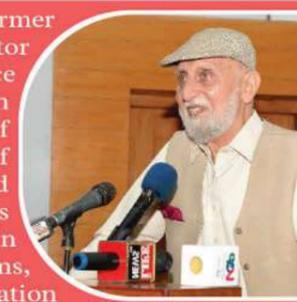
The session unquestionably fulfilled its promise, guiding participants on an enriching journey through a wealth of experiences and invaluable insights shared by three esteemed former senior CAA officers and a distinguished literary figure with diverse perspectives. It provided a rare and enriching opportunity for the audience to expand their horizons and gain profound insights that will undoubtedly enhance their personal and professional development.

Such gatherings serve as vital pillars in deepening our understanding of various

As the session drew to a close, Mr. Muhammad Afsar Malik, the Former Senior Additional Director of Air Transport took the floor to represent the entire audience. With heartfelt appreciation, Mr. Malik expressed his gratitude and shared his reflections on the remarkable event. He acknowledged the profound commended the management of CATI for flawlessly organizing the session, which left an indelible impression on all attendees.



In his speech, Mr. Malik emphasized that the session had not only engaged everyone but also served as a powerful source of motivation, offering invaluable insights and sparking inspiration in all present. On behalf of the esteemed guests, he acknowledged the significance of the gathering and the lasting impact it would have on both their professional and personal growth.



Mr. Muhammad Hanif Aurakzai, former Director of Airport Services and ex-Director of CATI, shared his invaluable experience from his dual roles within the aviation industry. In his capacity as Director of Airport Services, he was at the forefront of improving airport operations and enhancing service quality. Meanwhile, as Director of CATI, he played a key role in advancing the institute's training programs, shaping the next generation of aviation professionals. Reflecting on his experience, Mr. Aurakzai stated, 'The success of the aviation sector hinges on a strong foundation of training, collaboration, and a commitment to excellence. It is through

continuous development that we ensure the industry remains resilient and capable of meeting the challenges of the future.' His insights into the critical importance of both operational efficiency and robust training were a highlight of the session, offering valuable lessons for the aviation community.

subjects, highlighting the importance of organizing similar events in the future. By doing so, we ensure continuous growth and learning for all involved. These sessions not only offer educational value but also inspire a sense of community and shared knowledge that extends far beyond the event itself.

In conclusion, the session successfully achieved its objective, leaving a lasting impression on the attendees and reinforcing the need to continue hosting such meaningful gatherings to foster ongoing growth and development.



Mr. Sumair Saeed, Director of CATI, inaugurated the event with enthusiasm and pride, extending a warm welcome to the distinguished keynote speakers and the eager audience. In his

opening speech, he expressed his gratitude, stating, "As the Director of CATI, it is my privilege to welcome our esteemed guests who have joined us for this special occasion. We are deeply honored to have Air Vice Marshal (Retd.) Sajid Habib as our Chief Guest. Having served as the Deputy Director General of the Pakistan Civil Aviation Authority from 2007 to 2009, he brings a wealth of knowledge and experience. His steadfast integrity, commitment to ethical principles, strong leadership, and sound decision-making have significantly influenced the development of our aviation sector."

Mr. Saeed went on to acknowledge two other respected guests: Mr. Muhammad Hanif Aurakzai, former Director of Airport Services and ex-Director of CATI, and Mr. Rashid Muhammad Hussain, former Airport Manager of Allama Iqbal International Airport Lahore. "Mr. Aurakzai and Mr. Hussain have both held esteemed positions within the Civil Aviation Authority. They are widely respected for their competence, systematic approaches, and calm demeanors, which, coupled with a dedicated work ethic, have led to valuable contributions to the Authority's progress. Their tireless efforts in advancing our aviation sector deserve our deepest appreciation," he noted.

Concluding his opening address, Mr. Saeed expressed his heartfelt appreciation to these speakers, saying, "We sincerely thank our distinguished guests for their willingness to share their valuable insights with us today. Their remarkable dedication and contributions to both the aviation industry and society as a whole are an inspiration. We eagerly look forward to their insightful presentations."



Transforming Aviation Through Organizational Culture Insights from CPD Seminar

An organization's culture is fundamental to its success, shaping collaboration, communication, and innovation. By fostering trust, accountability, and continuous improvement, organizations create environments where individuals thrive. As an accredited Professional Engineering Body with the Pakistan Engineering Council, CATI has promoted growth through eight CPD seminars over two years, advancing aviation professionals across disciplines.

This 9th CPD seminar, held on May 9, 2024, at the CATI Auditorium, focused on "Improving Organizational Culture." Chief Guest Mr. Ahmed Jalal Shah, former Director of CATI and Principal Director of Air Navigation Services, shared valuable insights on the role of culture in aviation success. The event saw engaged participation from students, community members, HQCAA officers, and CATI trainees.

In his welcome address, Director CATI, Engr. Sumair Saeed, extended his appreciation to the participants and reaffirmed CATI's commitment to fostering continuous learning. He encouraged active engagement with the seminar's theme, "Improving Organizational Culture," emphasizing its significance for both personal and organizational growth, and setting a collaborative tone for the event.

Six distinguished speakers delivered presentations on key topics aligned with the seminar's theme and within the context of aviation organizations, offering a comprehensive view of how culture fosters resilience and enhances performance. A summary of their presentations is provided below.

Chief Guest Mr. Ahmed Jalal Shah, former Principal Director of Air Navigation Services, emphasized the essential role of a strong organizational culture in achieving long-term success in the aviation industry. He remarked that a positive, well-rooted culture promotes innovation, fosters collaboration, and enhances adaptability across all operational levels. Mr. Shah commended CATI's dedication to organizing impactful seminars that inspire aviation professionals to pursue excellence and meet challenges with resilience.

In his speech, he highlighted the seminar's insightful presentations on the profound effects of organizational culture on operational efficiency, safety, and leadership. Among the themes explored were leadership's impact on shaping culture, embedding safety as a core organizational value, and cultivating a cooperative environment that supports growth. Mr. Shah expressed sincere gratitude to the speakers and participants for their engaged contributions, noting that the ideas exchanged would inspire significant cultural shifts aimed at sustainable progress. In his closing remarks, he encouraged attendees to build upon this foundation, embracing ongoing learning and innovation to propel the industry forward.



Speaker: Mr. Harris Zikar-ur-Rehman, Joint Director CNS
Title: Unity is Diversity

Mr. Harris emphasized that unity and diversity are mutually reinforcing pillars of a thriving organizational culture. He highlighted that valuing diverse perspectives strengthens team cohesion, fosters mutual respect, and enhances problem-solving capabilities. By celebrating differences, organizations can build a unified culture where varied ideas converge toward shared goals, creating an inclusive environment that drives innovation and resilience.

Speaker: Mr. Kashif Khan Faheem Peerzada, ex-Joint Director HR
Title: Organizational Culture Codified: Know Knowledge and Nurture

Mr. Peerzada underscored the importance of defining and nurturing organizational culture through shared knowledge. He explained that a well-codified culture serves as a guiding framework, enabling members to align with core values and practices. By consciously nurturing knowledge and reinforcing these principles, organizations can create a culture that promotes growth, consistency, and long-term resilience.



Speaker: Mr. Faizan Liaquat, Joint Director ATS
Title: ATC Culture and Aviation Safety

The speaker discussed the unique aspects of ATC culture, linking it directly to aviation safety. He emphasized that a strong, safety-focused culture in Air Traffic Control promotes vigilance, teamwork, and rapid response. By fostering an environment where safety protocols are deeply embedded, organizations can ensure that ATC teams operate cohesively, minimizing risks and enhancing overall aviation safety standards.

Speaker: Mr. Khurram Malik, Director SQMS
Title: Positive Safety Culture: Expectations Versus Reality

Mr. Malik addressed the gap between the ideal and actual practices in fostering a positive safety culture. He highlighted that while expectations focus on open communication, accountability, and proactive safety measures, reality often reveals challenges like resistance to change and complacency. Bridging this gap requires continuous commitment to aligning everyday practices with the organization's safety goals, fostering a stronger, more resilient safety culture.



Speaker: Mr. Sumair Saeed, Director CATI
Title: Organizational Transformation Through Improving Culture

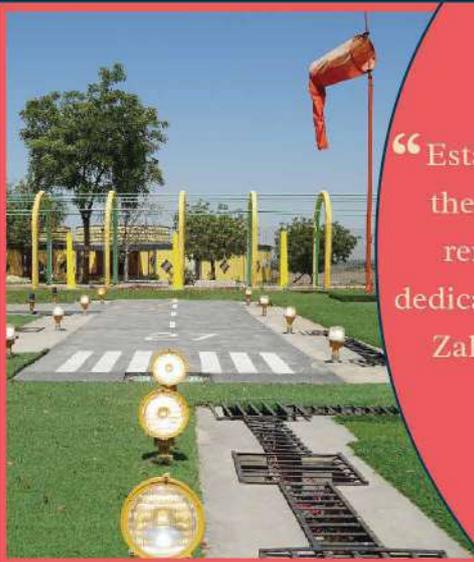
Mr. Sumair Saeed explored how organizational transformation is driven by a commitment to improving culture. He stressed that fostering trust, open communication, and adaptability creates a foundation for meaningful change. By aligning culture with strategic goals, organizations can break down silos, empower employees, and enhance collaboration—ultimately creating a resilient environment that supports long-term growth and innovation.

Speaker: Mr. Shahid Marri, Senior Assistant Director HR
Title: Cultivating Excellence: Building a Thriving Culture

Mr. Marri discussed the path to cultivating excellence by building a thriving culture. He pointed out that nurturing a culture rooted in respect, continuous learning, and shared vision drives individual and collective success. By empowering employees and recognizing achievements, organizations can foster an environment where excellence becomes a natural outcome, supporting sustained growth and innovation.



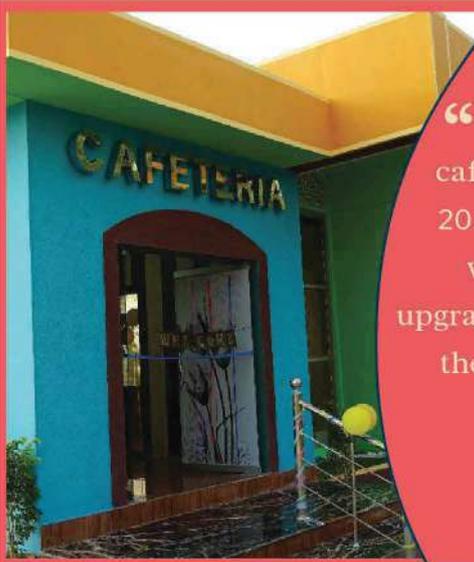
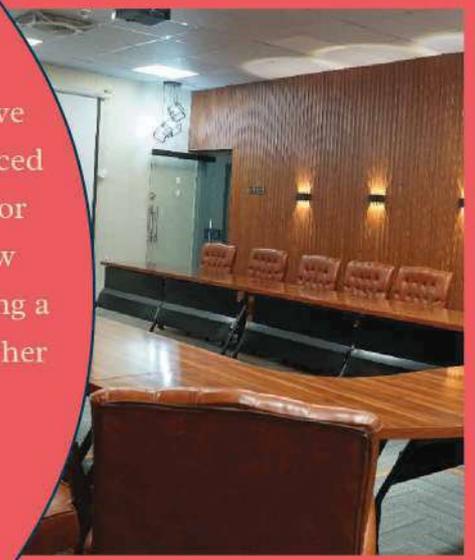
In closing, the Director of CATI expressed gratitude to Chief Guest Mr. Ahmed Jalal Shah and all speakers for their contributions to the 9th CPD seminar. CATI is committed to fostering excellence in aviation education and looks forward to future seminars.



“Established in the mid-1980s, the AGL Training Facility, renovated in April 2024, dedicated to honor (Late) Engr. Zahoor Ahmed’s impactful contributions to CAA (1984-1997).”



“All 19 CATI classrooms have been upgraded with enhanced acoustics and facilities for optimal learning. A new Resource Centre, featuring a 75-seat Lecture Hall, further strengthens training resources.”



“The newly renovated CATI cafeteria, reopened on May 8, 2024, now offers a modern, welcoming space with upgraded amenities, enhancing the dining experience for trainees and staff.”



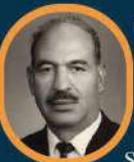
Aviation History

Pakistan's Commercial Aviation Management Inheritance

Compilation by: Zia ullah sheikh, FCILT
Rtd. Sr.ATCO, Ex Dy Chief (ATS) CATI HYD



Aviation history in Pakistan has its own legacy since the beginning of this invention and arrival of first commercial aircraft in sub-continent in 1920's, many of legends who remain associated with initial aviation development made the solid foundation of aviation in newly established state of Pakistan in 1947 in such a way that in decade of 1970 Pakistan become the regional market leader in the field of aviation and helped many countries to establish their own airlines, Air Navigation system, Air traffic control & Airspace management. This includes the UAE, Singapore, Afghanistan & Libya. Some of the legends from the period 1947 to 1982 includes:



Mr. Ali Gohar Khan Jadoon,

held a legendary position in Aviation industry of Pakistan. At the advent of Aviation activities in Sub-continent he joined Hindustan Aircraft Company at Bangalore as Aircraft supervisor. After creation of Pakistan he migrated to Pakistan and joined Orient Airways at Karachi later become Section Leader in Aircraft Over hall section of PIA. He was the first Pakistani Aeronautical Engineer who went to Fokker aircraft manufacturing establishment at Holland to evaluate the performance of F-27 aircraft for induction in PIA fleet. In Aeronautical Engineering community he was known as Born Engineer and retired from PIA as Chief Engineer Aircraft Over hall in 1975.

Mr. Saadat Khan,

was basically from signal branch of Royal Indian army and joined as Radio Communication Officer in HFRT Operations branch of Civil Aviation Department in 1948. Based upon his previous experience of Royal Army Aviation in Burma He was known as authority on Radio Tele Type (RTT) and High frequency radio telecommunication (HFRT) with the borne gene of aviation. A true dedicated, professional and honest officer who completed his service with full dignity. After his retirement his three sons M.Amjad Ali, Mr. Maqsood Ali, & Mr. Zubair Ali became Sr. Air traffic controllers in CAA and have unique opportunity to perform parallel duty in all the three ACC of Pakistan in a shift - Thus covering the whole Pakistan.



Mr. M.Y. Wazirzada,

Born 2 February 1927 and breathed his last on 18 January 2003 the last Director General of Civil Aviation Department, in his tenure he took the Pakistan aviation at the top in the subcontinent as well as at international level. Pakistan was the ATS service provider over the portion of Bombay FIR, Tehran FIR besides covering the two important ATS routes in the Arabian Sea south of Karachi. He played the instrumental role in creation of PCAA and after retirement from CAD in 1982 based upon his international repute in aviation He joined the ICAO and become the first Pakistani Head of South East Asia Regional headquarters at Bangkok.

Air Marshal Khursheed Anwer Mirza,

was the first DGCAA who took the charge of newly created Pakistan Civil Aviation Authority in 1982. A highly visionary officer from Pakistan Air Force take the Pakistan Civil Aviation to new heights with the close coordination with PAF, ICAO and his predecessor. His Air bridge plan brings the far-flung areas in Pakistan aviation network as number of airports increased 42, almost double of department period airports. New ATS Radar system and modern Radio Navigation aids added in the network. Training activities recognized by ICAO and Pakistan obtained the Regional Training center status in the field of aviation.



In December 1982, the Civil Aviation Department converted in to Civil Aviation Authority to meet the growing need of Aviation and tremendous development was made in the field of Air traffic control, Flight navigation, Airports infrastructure, & human resource development and by year 2000 the number of air destinations in Pakistan increased from 14 to 42.

News and Snippets

Diabetes Awareness Seminar and Walk

On April 25, 2024, CATI hosted an awareness seminar and walk on diabetes and healthy lifestyle practices. Led by expert doctors, attendees learned about diabetes management, prevention, and wellness.

Hypertension Awareness Event and Walk

On May 23, 2024, CATI held a seminar and walk on hypertension awareness, featuring insights from a cardiologist on prevention and lifestyle changes. The event underscored CATI's commitment to health and wellness.

Basic Life Support and First Aid Workshop

In partnership with Rescue 1122, CATI organized a Basic Life Support and First Aid seminar on May 27, 2024. Attendees received hands-on training in managing emergencies, including cardiac arrest and airway obstructions.

Launch of 2024 Training Catalogue

CATI Hyderabad has launched its 2024 Annual Training Plan as a detailed catalogue, outlining 159 courses across schools. This structured format aids trainees and stakeholders in planning their learning pathways.

Contact

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