Kuwait Civil Aviation Authority, Aviation Safety Circular (2026-02 – Rev 0)

Subject: Use of Artificial Intelligence (AI) and Other Unofficial Technical Information Sources During Aircraft Maintenance

Effective Date: 27-July-2026

Distribution: Part-145 AMOs, CAMOs, certifying staff/AML holders, MTOs

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Purpose

The Kuwait Civil Aviation Authority (CAA) issues this Safety Circular to raise awareness of the growing availability and use of Artificial Intelligence (AI) applications and other unofficial digital information sources by maintenance personnel, and to reiterate the regulatory requirement that aircraft maintenance shall be performed using current up to date approved maintenance data.

Background

Artificial Intelligence applications have become widely available and are increasingly capable of generating detailed technical responses to aviation-related questions. While these technologies may assist in general learning, research, document preparation and administrative activities, they are not approved sources of maintenance data.

AI-generated information may appear technically accurate; however, it can contain incorrect, incomplete, outdated or non-applicable information without indicating that an error exists. In addition, AI systems may not recognise aircraft configuration differences, modification status, operator-specific installations or the latest revisions to approved maintenance documentation.

For these reasons, information generated by AI applications shall not be relied upon as the basis for performing, certifying or approving maintenance on aircraft or aeronautical products.

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Regulatory Requirement

With reference to applicable KCASRs in particular (145.A.45) Maintenance organisations and certifying staff remain responsible for ensuring that all maintenance activities are accomplished using current up to date approved maintenance data applicable to the aircraft, engine, propeller or component concerned.

Approved maintenance data includes, as applicable:

- Aircraft Maintenance Manual (AMM)
- Illustrated Parts Catalogue (IPC)
- Fault Isolation Manual (FIM)
- Troubleshooting Manual (TSM)
- Wiring Diagram Manual (WDM)
- Structural Repair Manual (SRM)
- Component Maintenance Manual (CMM)
- Aircraft Wiring Manual (AWM)
- Approved Service Bulletins
- Airworthiness Directives
- Approved Engineering Instructions

Information obtained from AI applications, internet search engines, discussion forums or other unofficial sources does **not** constitute approved maintenance data.

Human Factors

The use of AI introduces a potential human factors hazard in the form of **automation bias**, where users may place undue confidence in information because it is presented clearly and convincingly.

Maintenance personnel should exercise professional judgement and recognise that the accuracy of AI-generated responses cannot be assured, even when accompanied by references or technical terminology.

Actions

Maintenance organisations are required to:

- Inform maintenance personnel of the limitations associated with AI-generated technical information.

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- Reinforce that approved maintenance data remains the only authoritative source for maintenance instructions.
- Include awareness of AI-related risks within Human Factors and Continuation Training programmes.
- Ensure controlled maintenance documentation is readily available at the point of maintenance.
- Include the use of unofficial technical information sources within internal quality assurance and safety oversight activities, where appropriate.

Safety Message

The Kuwait CAA recognises that Artificial Intelligence is an evolving technology with potential benefits across many aviation activities. However, when performing aircraft maintenance, the source of technical instructions is fundamental to continued airworthiness.

Regardless of how technical information is obtained, maintenance actions and certification decisions shall always be based on current approved maintenance data and the organisation's approved procedures.

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