



HSAC

Helicopter Safety Advisory Conference



Maintenance Workgroup

October 8-9, 2025

New Orleans, LA

Maintenance Workgroup

Lance Lyon



11 participants from 8 organizations

- HeliOffshore (1)
- Westwind (1)
- Chevron (4)
- PHI (1)
- Shell (1)
- Diversified Aviation Consulting (1)
- Airbus (1)
- VAI (1)

EDME
Enhanced Decision-Making Model for Engineering

OEM update
(Airbus)

Fatigue Management

3x Learning from incidents

Tool control Examples

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Enhanced Decision Making: Cognitive Reasoning in Maintenance *Scott Allan*

Background

- Why is enhanced decision making relevant in Offshore aviation engineering?
 - Weakness in staff experience/competency/training
 - +
 - Insufficient maintenance staff
 - +
 - Poor ratio of experienced certifying staff to non-certifying staff
 - +
 - Current training takes NOVICE to PROFICIENT performer
 - =

Need for training to take PROFICIENT PERFORMER to EXPERT

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Enhanced Decision Making: Cognitive Reasoning in Maintenance *Scott Allan*

Scenario Development

Development of Scenarios involved:

- Research on 5 continents with
 - Over 70 Engineers
 - 15 Operators
 - 4 OEMs



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Enhanced Decision Making: Cognitive Reasoning in Maintenance *Scott Allan*

Scenario Development

- Five scenarios were developed after extensive research with expert engineers
 - Elastomeric Bearing
 - Avionics Startup
 - Ice Detector
 - Offshore Snagging
 - Tail Rotor Balance



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OEM Update (Airbus)

Jarrod Gregoire

- Well received and informative presentation showcasing some of the aspects from the Airbus World online system.
- Some of those systems include.
 - Web Tek
 - Orion-AMM's
 - TIPI- for SB's and ASB's



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Helicopter Safety Advisory Conference

Safety Through Cooperation - Since 1978

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October HSAC central themes

- OEM update from Safran
- Continue sharing on the tool control subject