The Role of Training Organisations in AI & Cyber Security

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associated body ECAC CEAC

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TRAINAIR PLUS™ PLATINUM EXCELLENCE

COMPETENCY TRAINING & ASSESSMENT CENTER IATA EXCELLENCE

EASA European Aviation Safety Agency Virtual Academy APPROVED COURSE

Evolution of Aviation Technology

- **1903**: First powered flight.
- **1914-1918**: World War I accelerates aircraft development.
- **1920s-1930s**: Commercial aviation emerges (airlines and passenger flights).
- **1933**: First modern airliner with all-metal construction and retractable landing gear.
- **1939-1945**: World War II Aircraft technology advances rapidly for military purposes.
- **1960s**: Computerized flight control systems and autopilots.
- **1970s-1990s**: Digital avionics, fly-by-wire technology and GPS navigation systems.
- **1990s**: Glass cockpit displays, replacing traditional analog gauges with electronic displays.
- **2000s**: Integration of carbon composites for lighter, more fuel-efficient aircraft.
- **2010s**: Unmanned aerial vehicles (UAVs) and drones for surveillance, cargo delivery and aerial photography.
- **2020s**: Electric and hybrid-electric propulsion systems for greener aviation.

Artificial Intelligence in Aviation

- Artificial Intelligence (AI) offers transformative potential in revolutionizing traditional aviation training frameworks.
- AI can personalize learning experiences, simulate real-world scenarios and ensure the timely dissemination of up-to-date knowledge.
- By leveraging AI-driven training tools, aviation professionals can enhance their understanding and application of complex aviation regulations.

Cyber Security Threats

- Interconnected aviation systems are vulnerable to cyber threats, posing risks to safety & security.
- Cyber-attacks on aviation can have catastrophic consequences, highlighting the importance of robust Cyber Security measures.

The Role of Training Organisations

Building a Strong Foundation in AI & Cyber Security principles

- Understanding algorithms, machine learning and cybersecurity protocols.

Provide Personalized Learning Experiences & Practical Training

- Simulated cyber-attack scenarios and hands-on experience in AI development prepare professionals for real-world challenges.

Adapt to Technology Advancements

- Collaboration with industry partners and regulatory bodies ensures training reflects the latest innovations and best practices.

Welcome to Fundamentals of Instructional Competencies

Module 0 addresses:

- Course navigation instructions

Module 0

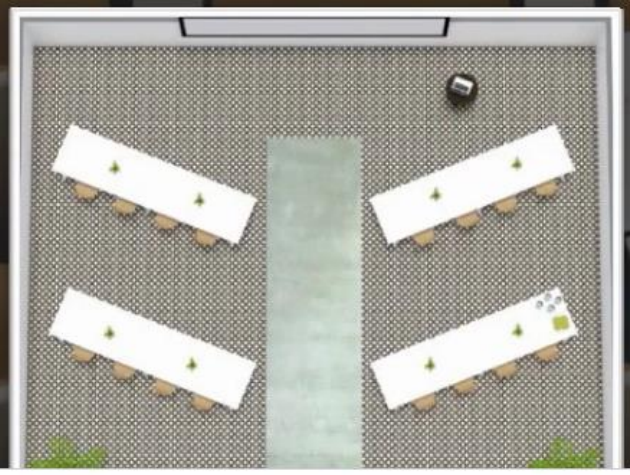
Attendance recommendations

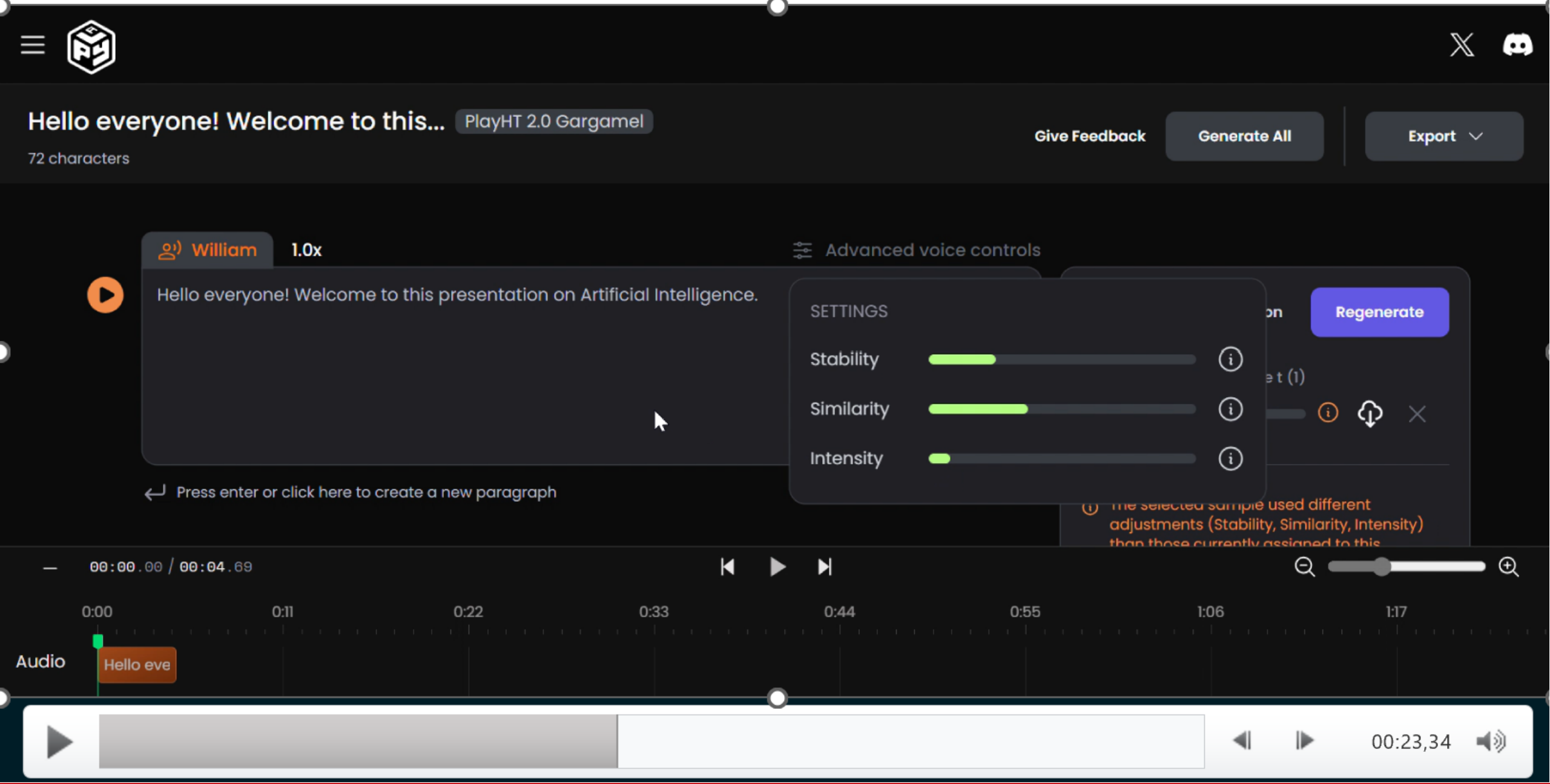
- Find a quiet place
- Volume check
- Full screen view
- Time management
- 3 months for course completion
- Review content

Back

Next

Section 5
Comfort and accessibility




Hello everyone! Welcome to this...
PlayHT 2.0 Gargamel
72 characters
Give Feedback
Generate All
Export
William
1.0x
Advanced voice controls
Hello everyone! Welcome to this presentation on Artificial Intelligence.
SETTINGS
Stability
Similarity
Intensity
Regenerate
Press enter or click here to create a new paragraph
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0:00
0:11
0:22
0:33
0:44
0:55
1:06
1:17
Audio
Hello eve
00:23,34

The Role of Training Organisations

Foster a culture of Vigilance & Accountability

- Promoting awareness and responsibility among aviation professionals regarding AI and Cyber Security.
- Encouraging a culture of continuous learning and improvement to stay ahead of emerging threats.

Conclusion

- Training organisations are instrumental in shaping the future of AI and Cyber Security in civil aviation.
- By prioritizing education, collaboration and vigilance; we can ensure the safety and security of our skies for generations to come.

EASA PART-IS & Cyber Security

- **Part-IS** introduces requirements for the identification and management of information security risks which could affect information and communication technology systems and data used for civil aviation purposes.
- **EASA PART- Information Security (IS) training course** for all that must comply to the new regulation regarding the management of information security risks with a potential impact on aviation safety:
  - https://jaato.com/courses/1219/easa-part-is/
- **Aviation Cyber Security training course:** covering the various elements of a cyber attack within the aviation industry, strengthening one's knowledge on cyber and bringing about increased awareness of such threat, creating a cyber-security culture.
  - https://jaato.com/courses/1012/aviation-cyber-security/

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THANK YOU