

AVIONIC Learn Platform

Future-Proofing Aviation Education: Innovative Curriculum and Digital Tools

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21.01.2025 Workshop





AVIONIC LEARN

**ONE STOP SHOP APPROACH
GREEN AIR TRANSPORT AND
LOGISTICS**

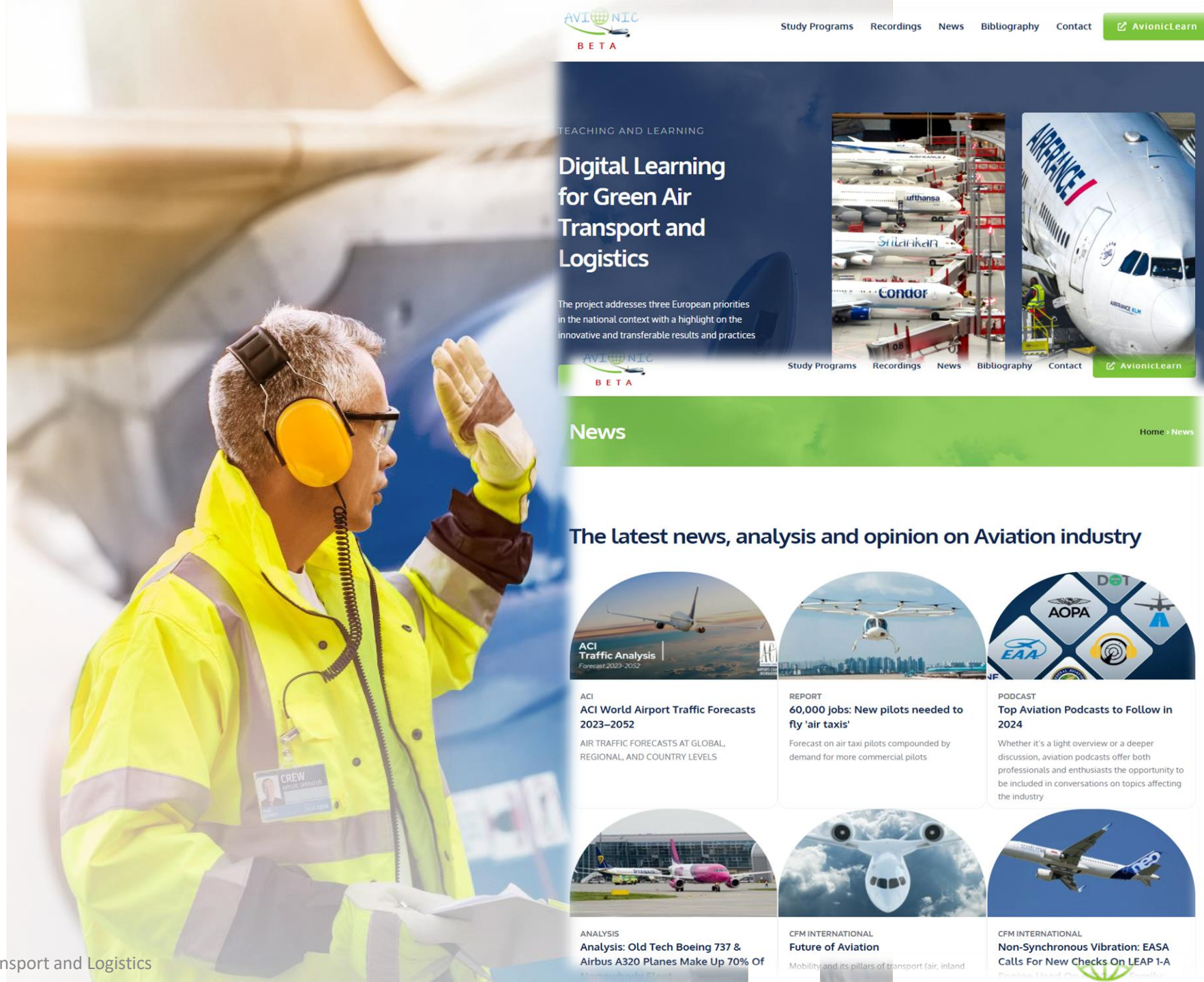


AVIONIC Learn Landing Page

Access to latest global, regional, national **NEWS** on topic always available for:

- Professionals
- Students
- Industry
- Academia

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ICAO Annexes	▼
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ICAO Airport Services Manual (ASM)	
ICAO Aerodrome Design Manual (ADM)	
Airport Planning Manual (APM)	
IATA Manuals	▼
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Hello, there!

We'll be glad to here from you.

Contact us and we will be happy to answer your questions.

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Edit mode

My courses

Course overview

In progress

Search

Sort by last accessed

Card

DE/ANTI-ICING PROGRAMME

Introduction to De-Anticing

11% complete

Aviation and Environment

Aviation & Environment

0% complete

Air Transport Operations (ATO)

General Air Transport

0% complete

Smart Airports & Urban Air Mobility

General Air Transport

3% complete

ATM Concepts Evolution

Air Traffic Management

Capacity and demand analysis in air

traffic management

Air Traffic Management

Human Factors and automation in ATM

Air Traffic Management

Human factors and air transport system

safety

Air Traffic Management


Strategic Management in Aviation

Strategic Management


AVIONIC Learn landing page

Recordings

Recordings Home | Recordings



Future Of Aviation: Battery-Powered Planes Produce Zero Emissions
A battery-powered plane nicknamed Alice made by Israeli company Eviation



The Future of Aviation with @IATAtv
In this keynote presentation for IATA in Vietnam, Hanoi, Matthew Griffin the @FanaticalFuturist and CEO of the @31i_Institute explores the future of the aviation industry, the threats to its security and safety, and the new

Master programs

Master Programs

UNESCO Chair "Engineering for Society" within the POLITEH

Polytechnic University of Madrid (Universidad Politécnica de

Université de Strasbourg, France

Bibliography

ICAO Annex 14

ICAO Airport Services Manual (ASM)

Part 1 - Rescue and Fire Fighting

Doc 9137-AN/898

Fourth Edition, 2015

Part 3 - Wildlife Control and Reduction

Doc 9137

Fifth Edition, 2020

Part 6 - Control of Obstacles

Doc 9137-AN/898

Second Edition, 1983

Part 8 - Airport Operational Services

Doc 9137-AN/898

First Edition, 1983

Part 2 - Pavement Surface Conditions

Doc 9137-AN/898

Fourth Edition, 2002

Part 5 - Removal of Disabled Aircraft

Doc 9137PB-AN/898

Fourth Edition, 2009

Part 7 - Airport Emergency Planning

Doc 9137-AN/898

Second Edition, 1991

Part 9 - Airport Maintenance Practices

Doc 9137-AN/898

First Edition, 1984

ICAO Aerodrome Design Manual (ADM)

Access to latest global, regional, national **recordings**, available for different levels of experience:

- Professionals
- Students
- Industry
- Academia



My learning journey

My courses



DE/ANTI-ICING
Handling

11% complete



Aviation and Environment
Aviation & Environment

0% complete



Air Transport Operations (ATO)
General Air Transport

0% complete



Smart Airports & Urban Air Mobility
General Air Transport

3% complete



ATM Concepts Evolution
Air Traffic Management



Capacity and demand analysis in air
traffic management
Air Traffic Management



List
Summary

AVIONIC Learn- My courses

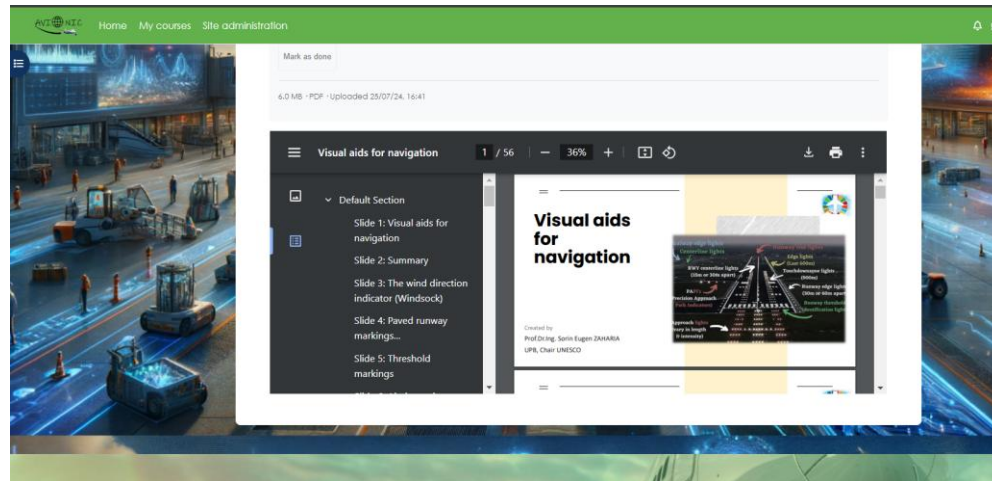
- Courses overview from multiple stakeholders, multidisciplinary approach, one unified educational journey
- Multiple display, search options, progress completion rate, save for later, forum with peers, discussion corner, badges upon completion

The screenshot displays the 'My courses' page of the AVIONIC Learn platform. The interface features a green header with navigation links: Home, My courses (active), Site administration, AVIONIC, Course Topic, Course search, and More. A user profile icon and 'Edit mode' toggle are also present. The main content area is titled 'My courses' and includes a 'Course overview' section. This section contains a grid of course cards. Each card displays a course title, a progress bar, and a completion percentage. A dropdown menu is open over the 'Aviation and Environment' card, showing options: Card (selected), List, and Summary. The courses shown are:

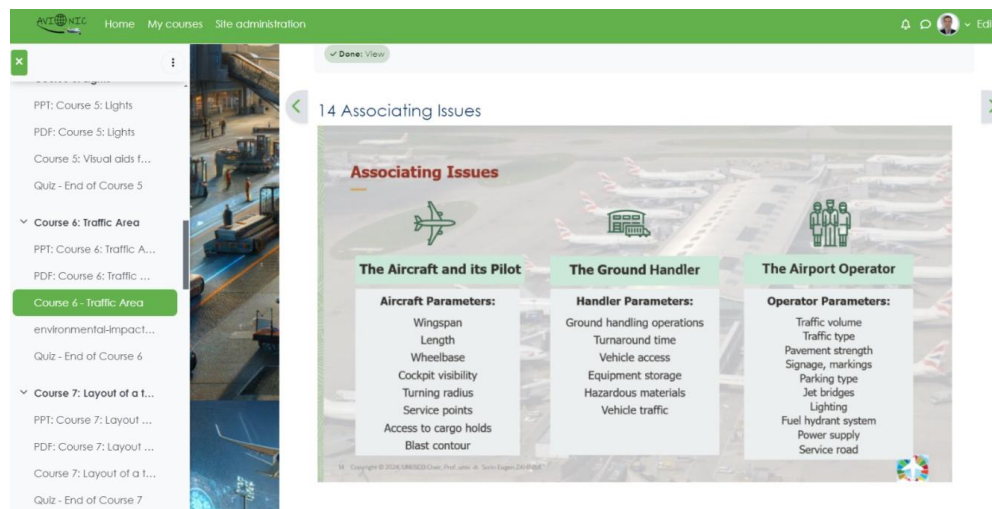
- DE/ANTI-ICING PROGRAMME** (Introduction to De/Anti-icing): 11% complete
- Aviation and Environment** (Aviation & Environment): 0% complete
- Air Transport Operations (ATO)** (General Air Transport): 0% complete
- Smart Airports & Urban Air Mobility** (General Air Transport)
- ATM Concepts Evolution** (Air Traffic Management)
- Capacity and demand analysis in air traffic management** (Air Traffic Management)

Curriculum design

Project branding



Intuitive navigation of the learning path

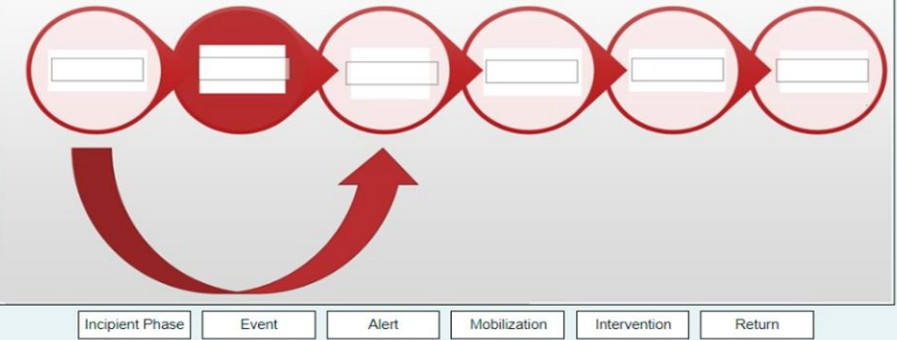


- The AVIONIC project seeks to prepare future aviation professionals for a sustainable future by integrating gamified learning experiences into a comprehensive curriculum.
- By integrating gamified learning experiences and engaging approach to learning, the project aims to equip learners with the digital and green skills necessary to navigate the complexities of the modern aviation industry

Question 1
Not yet answered
Marked out of 1.00
Flag question
Edit question
v2 (latest)

Put the cards in the correct order:

Stages of an emergency



Next page

Question 4
Not yet answered
Marked out of 1.00
Flag question
Edit question
v1 (latest)

Associate each term/component with the corresponding image:

Exercises



Previous page

AVIONIC Learn- My courses, gamified learning

Question 3
Not yet answered
Marked out of 1.00
Flag question
Edit question
v1 (latest)

Match Distances Associated with the Aerodrome:

Previous page

Next page

Question 5
Not yet answered
Marked out of 1.00
Flag question
Edit question
v1 (latest)

Associate each term with the corresponding image:

Low High Too Low Too High Correct Path

Home My courses Site administration

Quiz - End of Course 2 - Part 2

Quiz Settings Questions Results Question bank More

Back

Time left 0:09:21 Hide

Question 5
Not yet answered
Marked out of 1
Flag question
Edit question
v3 (latest)

Match the following terms with their correct definitions:

Term	Definition
Stopway	Choose...
Clearway	Choose...
RESA	Choose...
Runway Strip	Choose...

A clear area beyond the runway end used for the initial climb of the aircraft.
An area beyond the runway intended to reduce damage in case of overrun.
An area that allows an aircraft to complete an interrupted take-off without damage.
A safety area including the runway and stopways.

Previous page

page ?

AVIONIC Learn- My courses, gamified learning

Question 1

Not yet answered

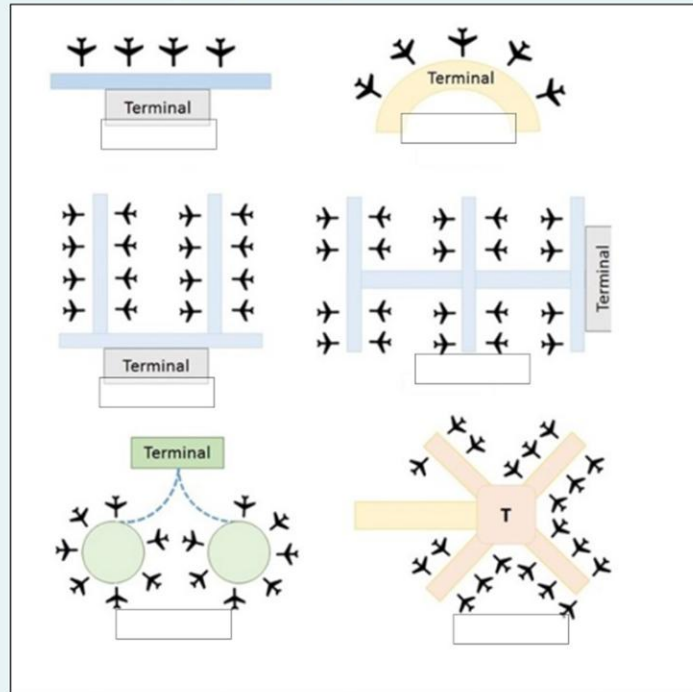
Marked out of 1.00

Flag question

Edit question

v3 (latest)

Associate each term with the corresponding terminal type:



Star Pier Satellite Pier Concourse Standard Linear Curvilinear

Question 8

Not yet answered

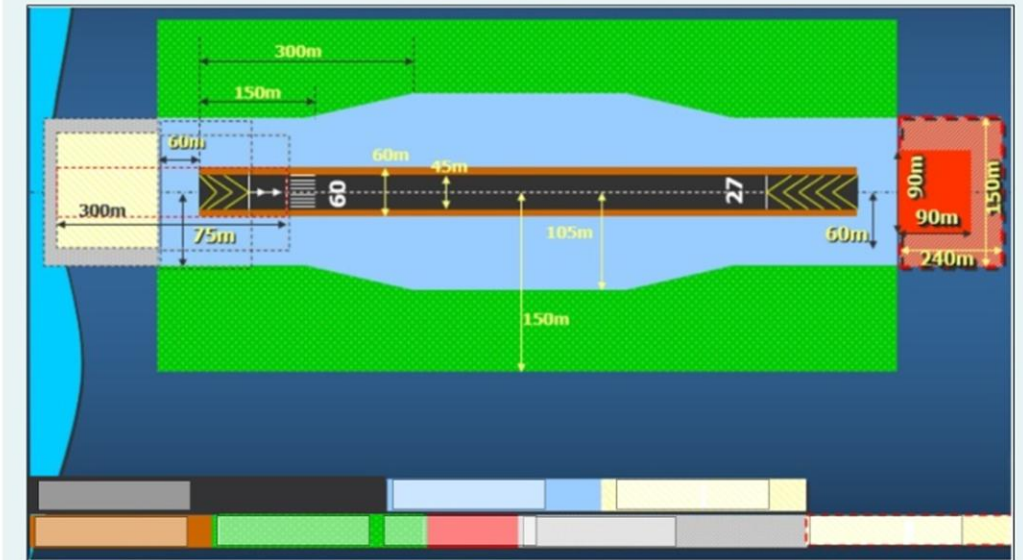
Marked out of 1

Flag question

Edit question

v2 (latest)

Associate each term/device with its corresponding place:



Shoulders Clearway Radio altimeter area Adjusted strip Runway and Stopway
Pre-threshold area RESA Strip (unobstructed)

Previous page

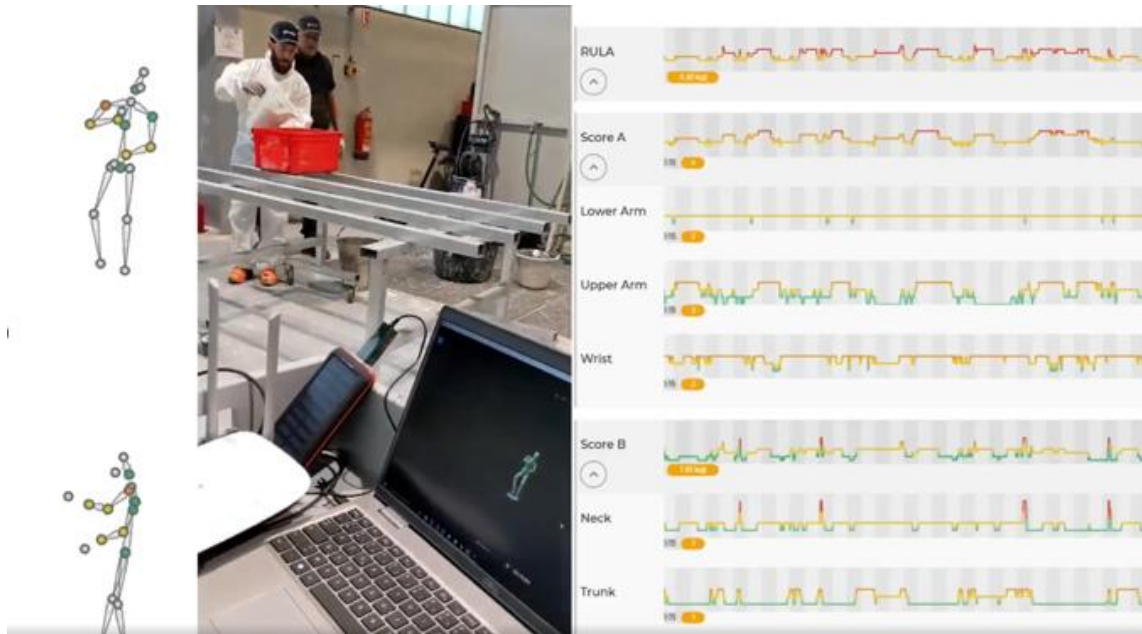
Finish attempt ... ?

VR education, “Hands-on” learning scenarios

Immersive Learning Experience

Enhanced Knowledge Retention

VR training can be significantly more cost-effective than traditional methods, especially for industries that require specialized training or expensive equipment



Interactive Assessments

VR-based assessments offer real-time feedback and allow learners to practice skills repeatedly in a safe environment.





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As we prepare to land from the AVIONIC learning journey, let us take a moment to appreciate the smooth flight we have experienced, navigating complex subjects and learning anew.

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