



Blended Learning Platform (Del.4.4)

Project: AEROFUSE – An alliance for the Future of the AEROnautics and Upstream segment Skills Evolution

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Task: 4.4 / Del: 4.4

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LIST OF ABBREVIATIONS

AS&D - Aerospace & Defense

AB – Advisory Board

AI - Artificial Intelligence

ALH - Aerospace Learning Hub

EU - European Union

GDPR - General Data Protection Regulation

H5P - HTML5 Package (Interactive Content)

HEI - Higher Education Institution

IMH - Instituto de Máquina-Herramienta (consortium partner)

IPN - Instituto Pedro Nunes (Project coordinator)

KPI - Key Performance Indicator

MICOO - Microcredential Issuing Platform by Azulchain

MOOC - Massive Open Online Course

MRO - Maintenance, Repair and Overhaul

PDF - Portable Document Format

SCORM - Sharable Content Object Reference Model

VET - Vocational Education and Training

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1. Introduction

This document has the intention to support and present the Blended Learning Platform (D4.4) developed under Task T4.4 of Aerofuse's Work Package 4 – Design of the VET and HEI Curricula, led by IPN. The platform has been developed mainly during May and June 2026 and launched at Month 8 of the project (July 2026) as foreseen in the Grant Agreement. The Learning platform is to serve as the central support tool for training activities developed in the scope of AEROFUSE project.

2. Background and Context

Work package 4 – Design of the VET and HEI curricula, defines reactive and proactive training roadmaps to address skills gaps in the Aerospace & Defense Ecosystem, namely the sub sectors of Aeronautics, Satellite Manufacturing, Airports and MRO. Task T4.4 required the design and creation of a blended learning platform to host project courses developed by the Partners, including MOOCs, and to support the delivery of all training activities. The platform will also include information for Aerospace Learning Hub online based events, later in the project.

3. Platform Description

The learning platform is available at <https://training.aerofuse-project.eu/>, also linked at the project website <https://www.aerofuse-project.eu> under “Blended Learning Platform” tab, it is Moodle based (v5.1.3) and includes the following main features:

- Multimedia content capabilities (such as PDFs; recorded videos; content books, live sessions; H5P activities; SCORM packages and many other learning tools);
- Intuitive and user-friendly interface for trainers/instructors and trainees/students, with the possibility of integrating interactive and collaborative elements (such as group assignments, forums of discussion, and others.);
- Assessment mechanisms, e.g. using quizzes and assignments;
- Progress tracking and completion status visible for the student to drive engagement;
- Student Feedback tools (such as satisfaction surveys, covering relevant KPIs of the project)
- AI-powered adaptive learning using Drillster neuroscience-based methodology (microlearning, spaced repetition and immediate feedback);
- Possibility of 100% self-paced training courses, adding flexibility for the learners (anytime, anywhere);
- Mobile version support;
- Integration with MICOO by Azulchain for Microcredentials issuing, as described in Del. 4.5 - Evaluation, Transparency and Recognition Tools Guidelines;
- Alignment with the visual identity of the project

4. Implementation and launch

The Learning platform is now implemented and configured. It was launched to the target audiences on the 29th of July 2026 with two training courses as pilots available for registration (in progress activity under T5.1). The primary language used is English.

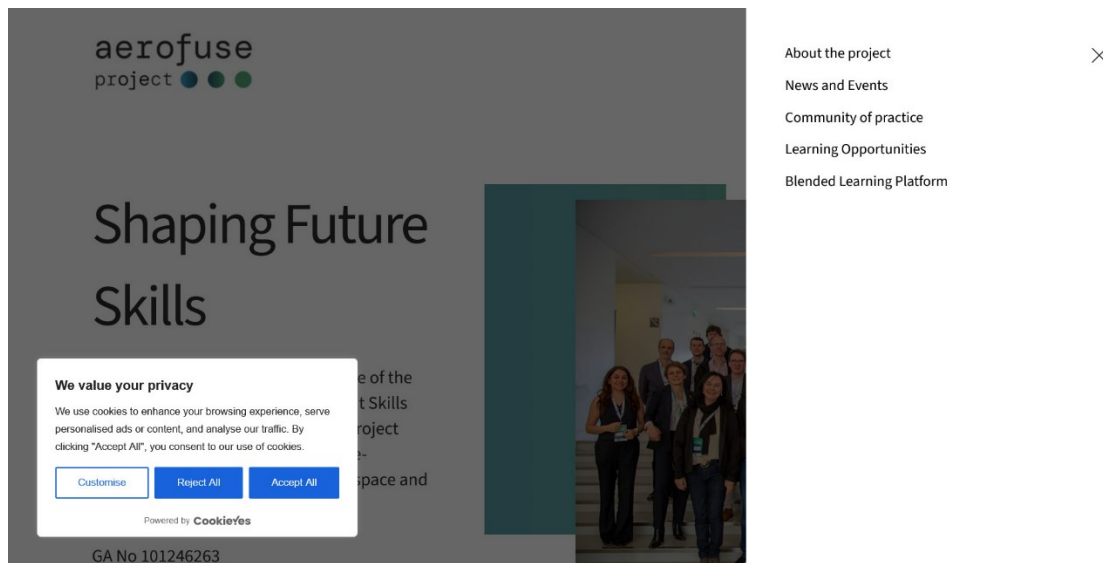
Human Factors in Aviation course started to enroll its first interested students in the 30th of July, marking the delivery of the first training course on the Learning Platform. As a first proposed timeline, students are expected to complete training activities until the 30th of August. This decision depends on the number of registered students and the pace they imprint to their own learning path.

Users can now access the available training courses on the platform via the project website. Registration is initiated on that digital environment and then completed through Moodle credentials sent by email. The platform complies with GDPR requirements for personal data protection. Adequate data privacy notes are displayed as a mandatory activity in the course structure, and earlier in the registration phase.

Before the public launch, the platform and the initial pilot courses were reviewed internally to verify user access, navigation, course structure, the correct functioning of the main learning activities and student's completion conditions.

5. Platform overview – screenshots

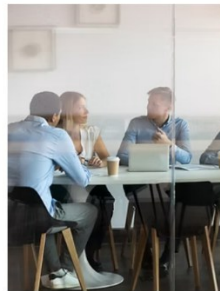
The following screenshots illustrate the current state of the AEROFUSE Blended Learning Platform at the time of delivery (end of July 2026):



Screenshot 1 - Aerofuse website tabs, including "Learning Opportunities" and "Blended Learning Platform".

Blended Learning Platform
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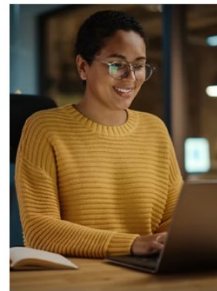


Human Factors in Aviation Course

Start date: 30 July, 2026
Deadline for Registration: August 15, 2026
Target Audience: VET Learners
Workload: 20 hours (Asynchronous)
Delivery Mode: Online, self-paced
Language: English

[Additional Information](#)

[Registration Form](#)



Soft skills as a starting point for High Professional Performance Course

Start date: to be disclosed
Deadline for Registration: August 15, 2026
Target Audience: VET Learners; Mixed audience
Workload: 20 hours (Asynchronous)
Delivery Mode: Online, self-paced
Language: English

[Additional Information](#)

[Registration Form](#)

info@aerofuse-project.eu



[Privacy Policy](#)



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Screenshot 2 - Course offer and registration environment on the project website

Aerofuse Blended Learning Platform



Shaping Future Skills

AEROFUSE (An Alliance for the Future of the AEROnautics and Upstream Segment Skills Evolution) is a four-year Erasmus+ project focused on strengthening and future-proofing skills in the European aerospace and defence ecosystems.

Project Website <https://www.aerofuse-project.eu/>

Available courses

Human Factors in Aviation



This course teaches prospective technicians involved in aircraft maintenance and operations the critical impact of human factors on aviation safety, efficiency, and error management. It aims for students to internalize a "safety culture" in maintenance operations by comprehending the relationships between human performance, the physical and social environment, communication, and workplace hazards.

Teacher: [Rustem Yesilay](#)

Soft skills as a starting point for high professional performance



Soft skills are a key factor in achieving high professional performance. This course explores how competences such as cognitive flexibility, intellectual curiosity and critical thinking help improve decision-making, adaptability and effectiveness at work.

Teacher: [Garazi Catalan](#)



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Screenshot 3 - Aerofuse Blended Learning Platform Landing page

The screenshot displays the Micoe+ platform interface for configuring a microcredential. The sidebar on the left contains navigation links: Dashboard, MY CREDENTIALS (My Challenges, My Wallet, Other's Challenges), ORGANIZATION (Organization Home, Credentials, Manage / Design, Open Challenges, Issued Credentials, Users, Groups, Permissions, Select Organization), and a logo for micoe+.

The main content area is titled 'Human Factors in Aviation' and shows the configuration status as 'Configuration completed'. A green 'PUBLISH' button is visible. Below this, there is a 'Details' section with the following information:

- Microcredential:** Non-Formal
- Learn & Earn:** English
- 3 years**
- Learning Hours:** 18
- Intermediate**
- EQF - Europe:** Level 4
- Invites and LMS Integration Settings:** Already Achieved: No, User must accept: Yes

The 'Description' section states: 'The microcredential "Human Factors in Aviation" focuses on the study of how human behavior, capabilities, and limitations impact the safety and efficiency of aviation operations. Participants will acquire knowledge of human factors principles and their impact on aircraft maintenance operations and flight safety. This will include human performance and limitations, organisational culture and teamwork, fatigue, stress, workload management and human error prevention. They will develop skills to analyse factors affecting human performance, identify risks related to human error, apply preventive strategies, communicate effectively within aviation work environments and contribute to safe and efficient maintenance operations.'

The 'Involved Skills' section lists the following skills with green status indicators:

- Human Factors Fundamentals
- Human Performance Analysis
- Teamwork and Safety Culture
- Performance Factor Assessment
- Human Error Prevention

The 'Activities' section shows 'Course completion'.

The 'References' section lists the following references:

- Use communication techniques** (ES00): Apply techniques of communication which allow interlocutors to better understand each other and communicate accurately in the transmission of messages.
- Work in teams** (ES00): Work confidently within a group with each doing their part in the service of the whole.
- Promote health and safety** (ES00): Promote the importance of a safe working environment. Coach and support staff to participate actively in the continuous development of a safe working environment.
- Ensure compliance with safety legislation** (ES00): Implement safety programmes to comply with national laws and legislation. Ensure that equipment and processes are compliant with safety regulations.
- Risk management process** (ES00): The process of identifying, assessing, and prioritising of all types of risks and where they could come from, such as natural causes, legal changes, or uncertainty in any given context, and the methods for dealing with risks effectively.
- Manage stress in the work place** (ES00): Cope with sources of stress and cross-pressure in one's own professional life, such as occupational, managerial, institutional and personal stress, and help others do the same so as to promote the well-being of your colleagues and avoid burn-out.

The 'Learning Paths' section shows 'Human Factors in Aviation' with 18 E-learning Modules and Self-Directed learning.

At the bottom of the page, it says: © 2026, Made with ❤ by AZULchain

Screenshot 4 - Overview on the Tests concerning Microcredential issuing process

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[Home](#)
[Dashboard](#)
[My courses](#)
[Site administration](#)

Learner's Characterisation Form
Privacy Notice

Module 1- Intellectual curiosity

What is Intellectual Curiosity?
What is Intellectual Curiosity...
Activating Curiosity
Better curiosity questions
From the game to life - Mini r...
Do I really need to be curios...
The 5 Whys: Exploring My Cu...
Self-Empathy Map: Understa...
Hands on, its change time!
Block Activities
Final Test - Intellectual Curio...

Module 2- Critical Thinking

What is Critical Thinking?
What is Critical Thinking? - T...
From Description to Evaluation

INTELLECTUAL CURIOSITY

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Intellectual curiosity is the ability to take an interest in what one does not know, ask questions, seek new answers, and learn continuously. In the workplace, this skill helps people better understand problems, adapt to change, improve decision-making, and find more creative solutions.

What is Intellectual Curiosity?
Completion

In this section, you will **discover** what **intellectual curiosity** is and how it supports learning, critical thinking and continuous personal and professional growth.

Not available unless: The activity **Privacy Notice** is marked complete

What is Intellectual Curiosity? - Test yourself
Completion

Test your understanding of the key concepts covered in this section on intellectual curiosity. Check what you have learned and identify any areas you may want to review.

Not available unless: The activity **What is Intellectual Curiosity?** is marked complete

Activating Curiosity
Completion

You will discover how asking questions helps us explore possibilities, test explanations and move from not knowing to understanding.

Not available unless: The activity **What is Intellectual Curiosity? - Test yourself** is marked complete

Better curiosity questions
Completion

Better curiosity questions help us explore, understand and learn. Weaker questions often judge too early, close the conversation or focus on blame before understanding the situation.

Not available unless: The activity **Activating Curiosity** is marked complete

From the game to life - Mini reflective activity
Completion

Connect the curiosity you experienced during the game with real life situations. Explore what motivates you to ask questions and continue learning.

Not available unless: The activity **Better curiosity questions** is marked complete

Do I really need to be curious in my work?
Completion

In this book, you will explore why intellectual curiosity matters in today's workplace. You will see how curiosity supports continuous learning, better decision-making, creativity, collaboration and adaptation to change. You will also reflect on what can limit curiosity and how small habits can help you become more open to learning.

Not available unless: The activity **From the game to life - Mini reflective activity** is marked complete

The 5 Whys: Exploring My Curiosity
Completion

This activity will help you identify what limits your curiosity and define one small action to keep exploring further.

Not available unless: The activity **Do I really need to be curious in my work?** is marked complete

Self-Empathy Map: Understanding My Curiosity
Completion

This activity will help you observe your curiosity from the outside and recognise what your behaviour, environment and needs reveal about the way you learn.

Not available unless: The activity **The 5 Whys: Exploring My Curiosity** is marked complete

Hands on, its change time!
Completion

An activity book designed to encourage intellectual curiosity.

Not available unless: The activity **Self-Empathy Map: Understanding My Curiosity** is marked complete

Block Activities

Download the activities here.

Final Test - Intellectual Curiosity
Completion

Put your learning into practice. Use your knowledge of intellectual curiosity to answer questions based on realistic everyday and professional situations.

Not available unless: The activity **Hands on, its change time!** is marked complete

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[Purge all caches](#)

Reactive instances:
[ProcessMonitor](#)
[CourseEditor4](#)

Screenshot 5 - Overview on Training module content resources and activities

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Course completion  

⋮


 Not available unless: The activity **Feedback** is marked complete

 [Edit restrictions](#)


Microcredential - Human Factors in Aviation

[Completion](#) ⌵
⋮



HUMAN FACTORS IN AVIATION

The microcredential "Human Factors in Aviation" focuses on the study of how human behavior, capabilities, and limitations impact the safety and efficiency of aviation operations. Participants will acquire knowledge of human factors principles and their impact on aircraft maintenance operations and flight safety. This will include human performance and limitations, organisational culture and teamwork, fatigue, stress, workload management and human error prevention. They will develop skills to analyse factors affecting human performance, identify risks related to human error, apply preventive strategies, communicate effectively within aviation work environments and contribute to safe and efficient maintenance operations.

Issuing organisation

 Ege University Aviation HVS

Quality standard

 World Alliance for Microcredentials

 Not available unless: The activity **Feedback** is marked complete

 [Edit restrictions](#)

Screenshot 6 - Learning Platform Course completion section



Microcredential - Human Factors in Aviation

MICROCREDENTIAL

Human Factors in Aviation

The microcredential "Human Factors in Aviation" focuses on the study of how human behavior, capabilities, and limitations impact the safety and efficiency of aviation operations. Participants will acquire knowledge of human factors principles and their impact on aircraft maintenance operations and flight safety. This will include human performance and limitations, organisational culture and teamwork, fatigue, stress, workload management and human error prevention. They will develop skills to analyse factors affecting human performance, identify risks related to human error, apply preventive strategies, communicate effectively within aviation work environments and contribute to safe and efficient maintenance operations.

Issuing organisation

Ege University Aviation HVS

Quality standard

World Alliance for Microcredentials

[View the credential](#)

This link opens the public page of the credential on the MICOO platform. You can freely browse it to read all the details, requirements and recognition of this credential.

[Get your microcredential](#)

You must be enrolled in the course as a student to access this activity.

Screenshot 7 - Learning Platform Microcredential integration

6. Alignment with project needs

As described above the platform enables the future issuance and management of micro-credentials by partner organisations in compliance with international standards. It will also host the full training activities delivered under WP5 Delivery of the VET/HEI curricula.

7. Future developments and sustainability

The platform will be maintained and further developed by IPN with contributions mainly from IMH. Planned enhancements include additional training modules for reactive and proactive response, including ALH events when adequate. Expanded AI-powered adaptive content, and the development of a self-diagnostic tool for learners, that can be

implemented either in the project website or in the Aerofuse blended platform itself is also foreseen. These developments will follow the relevant EU guidance on responsible AI use and the applicable EU AI regulatory framework. The platform will remain accessible, managed mainly by IPN and IMH, to ensure long-term exploitation of the AEROFUSE training offer.

8. Conclusion

In conclusion, the Aerofuse Blended Learning Platform (D4.4) has been successfully implemented and delivered at Month 8 of the project, under Task T4.4 of Work Package 4. As a first approach the platform addresses all identified needs, which will be validated by the feedback of the users and stakeholders in the coming months. Improvements will then be assessed and implemented as agreed.