aerofuse
project

Blended Learning Platform (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.

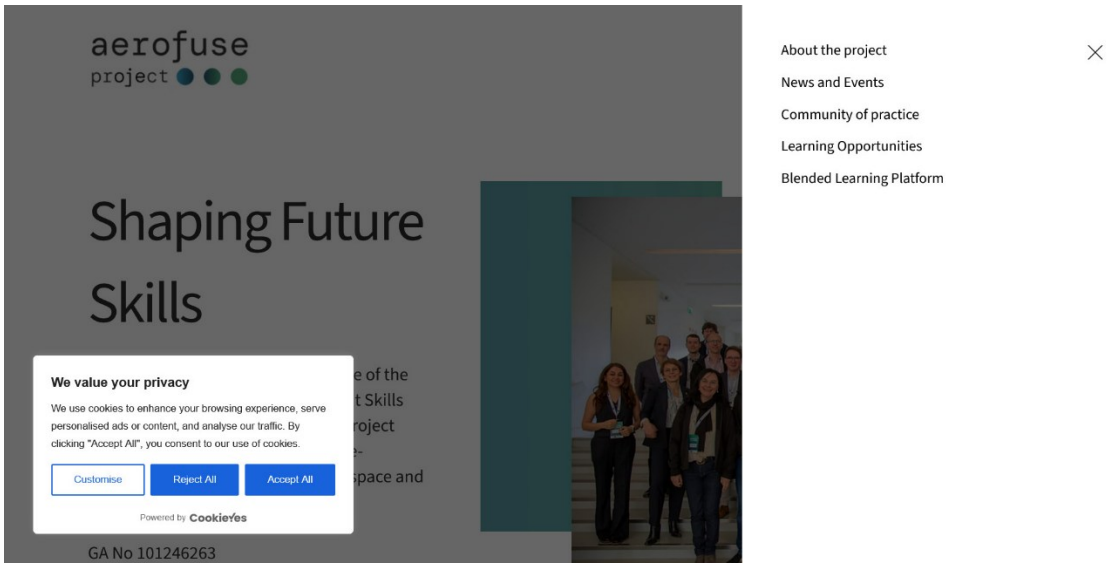
Human Factors in Aviation course started to enroll its first interested students in the 30th of July, marking the delivery of the first training course on the Learning Platform. As a first proposed timeline, students are expected to complete training activities until the 30th of August. This decision 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.

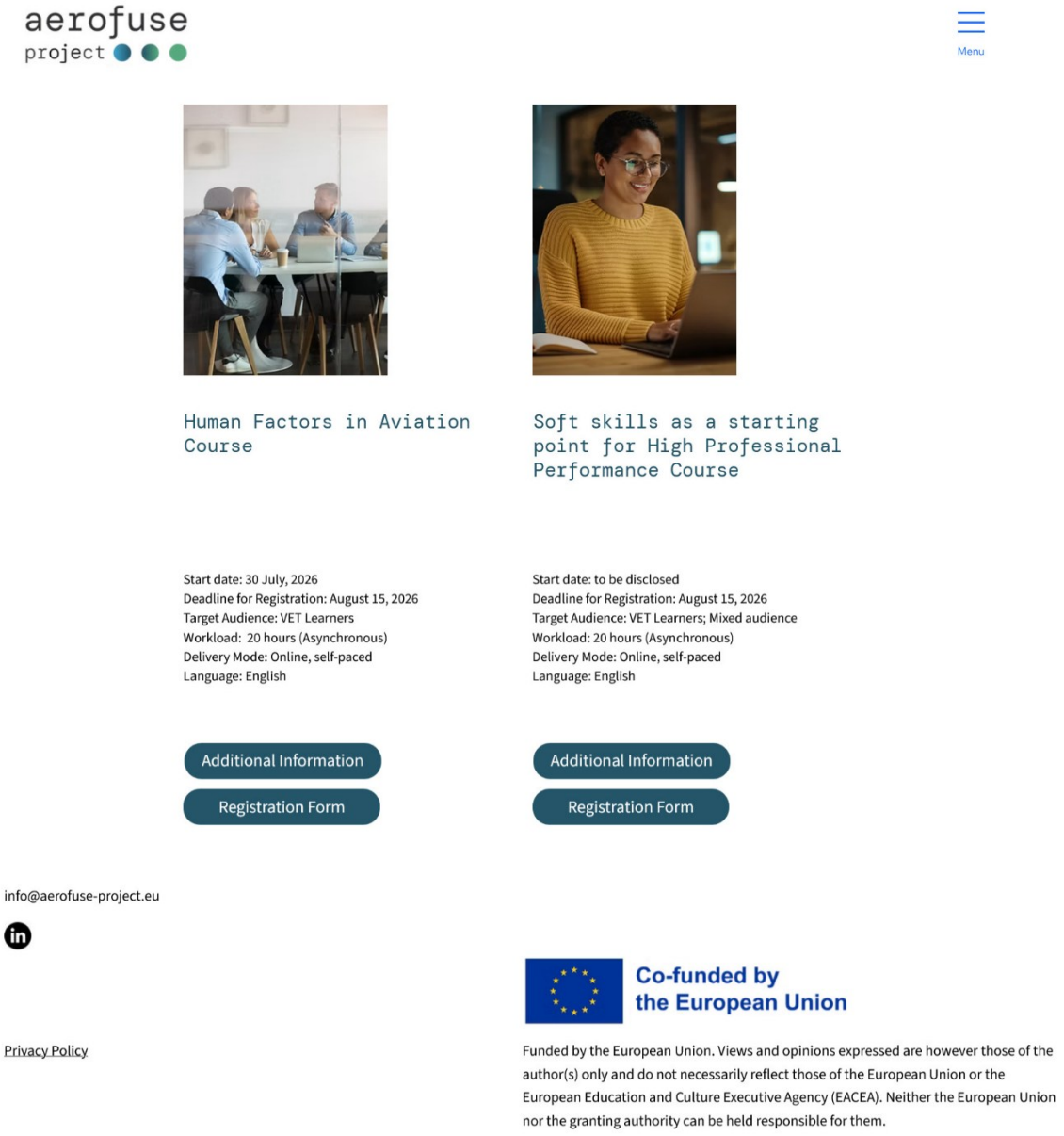
Before the public launch, the platform and the initial pilot courses were reviewed internally to verify user access, navigation, course structure, the correct functioning of the main learning activities and student's completion conditions.

5. Platform overview – screenshots

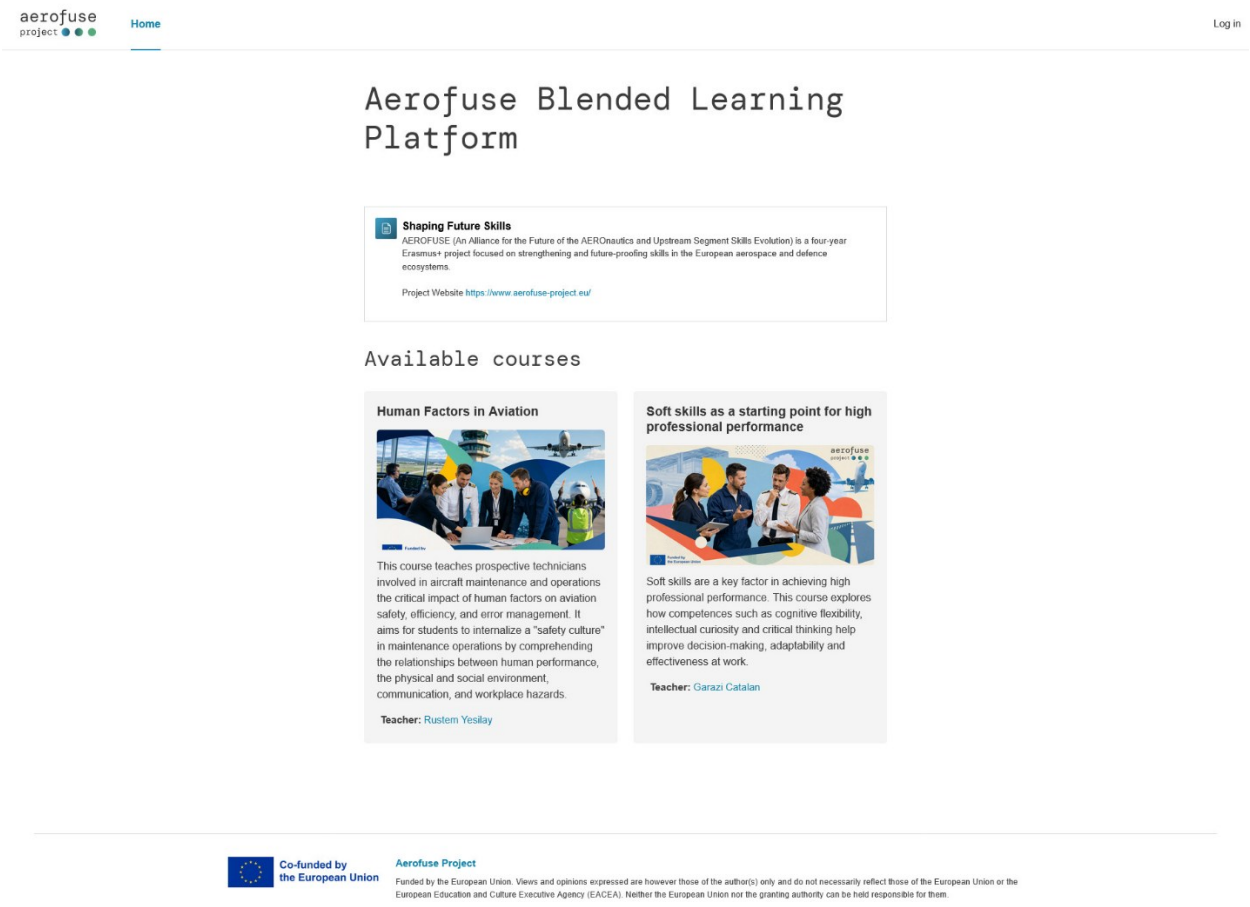
The following screenshots illustrate the current state of the AEROFUSE Blended Learning Platform at the time of delivery (end of July 2026):



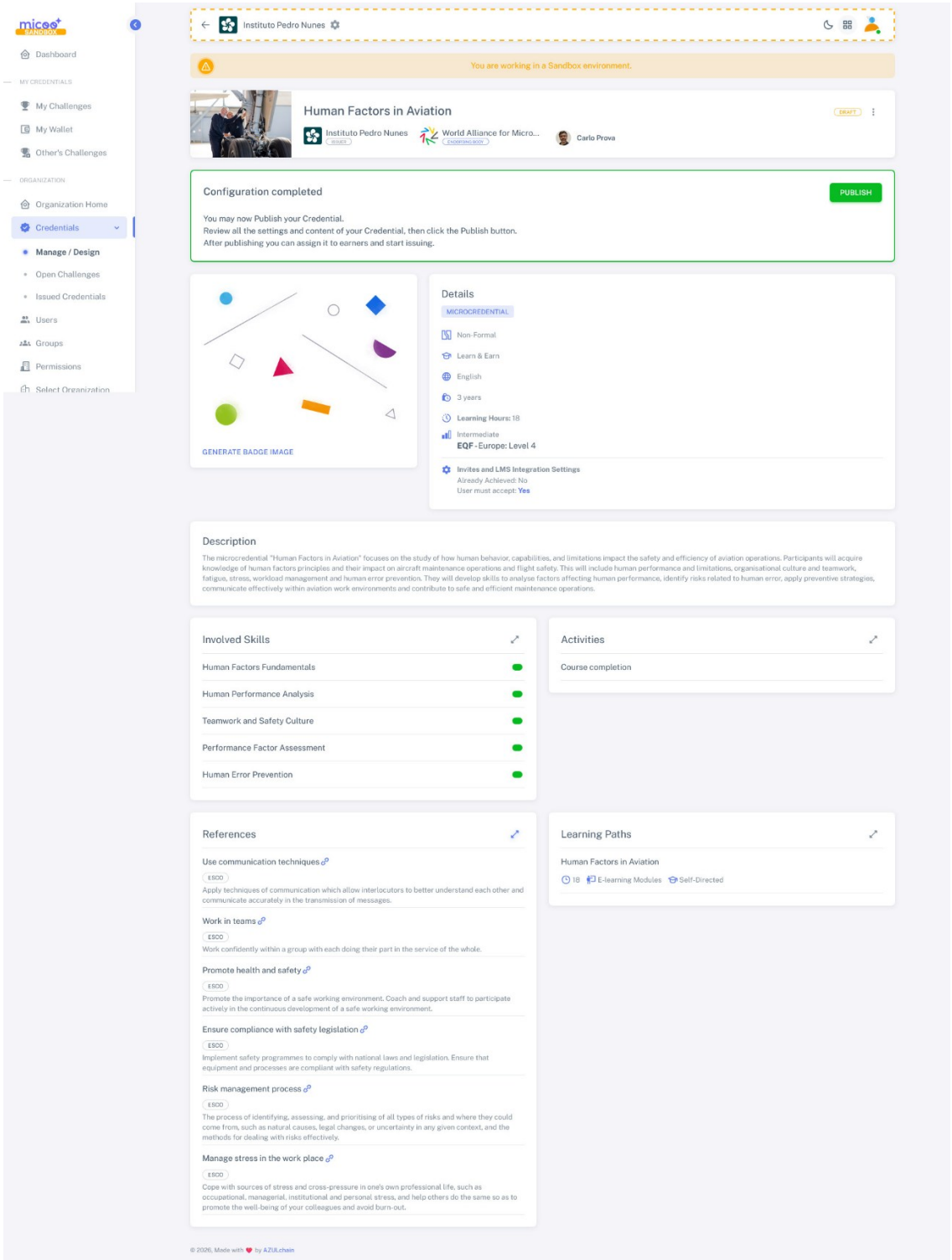
Screenshot 1 - Aerofuse website tabs, including "Learning Opportunities" and "Blended Learning Platform".



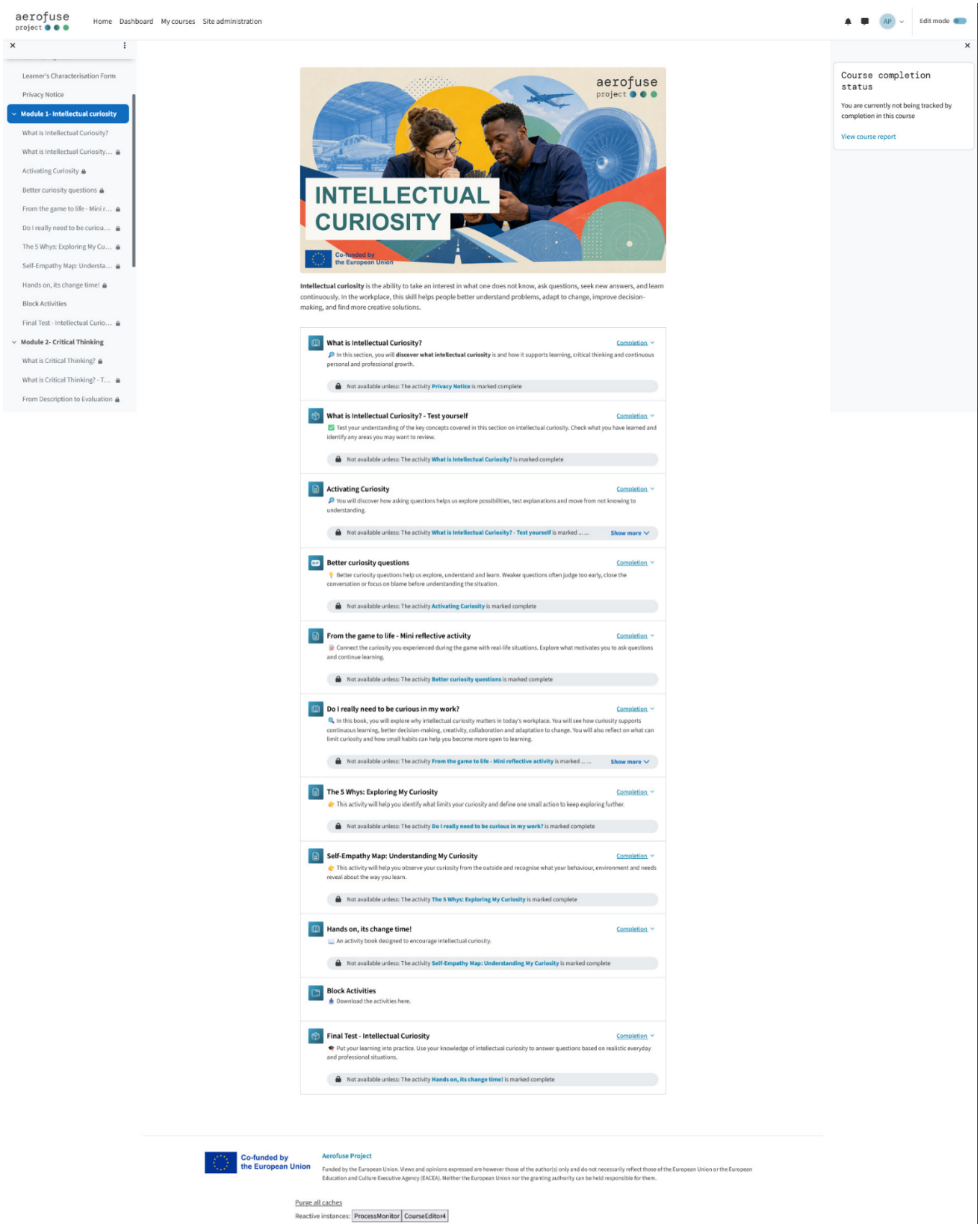
Screenshot 2 - Course offer and registration environment on the project website



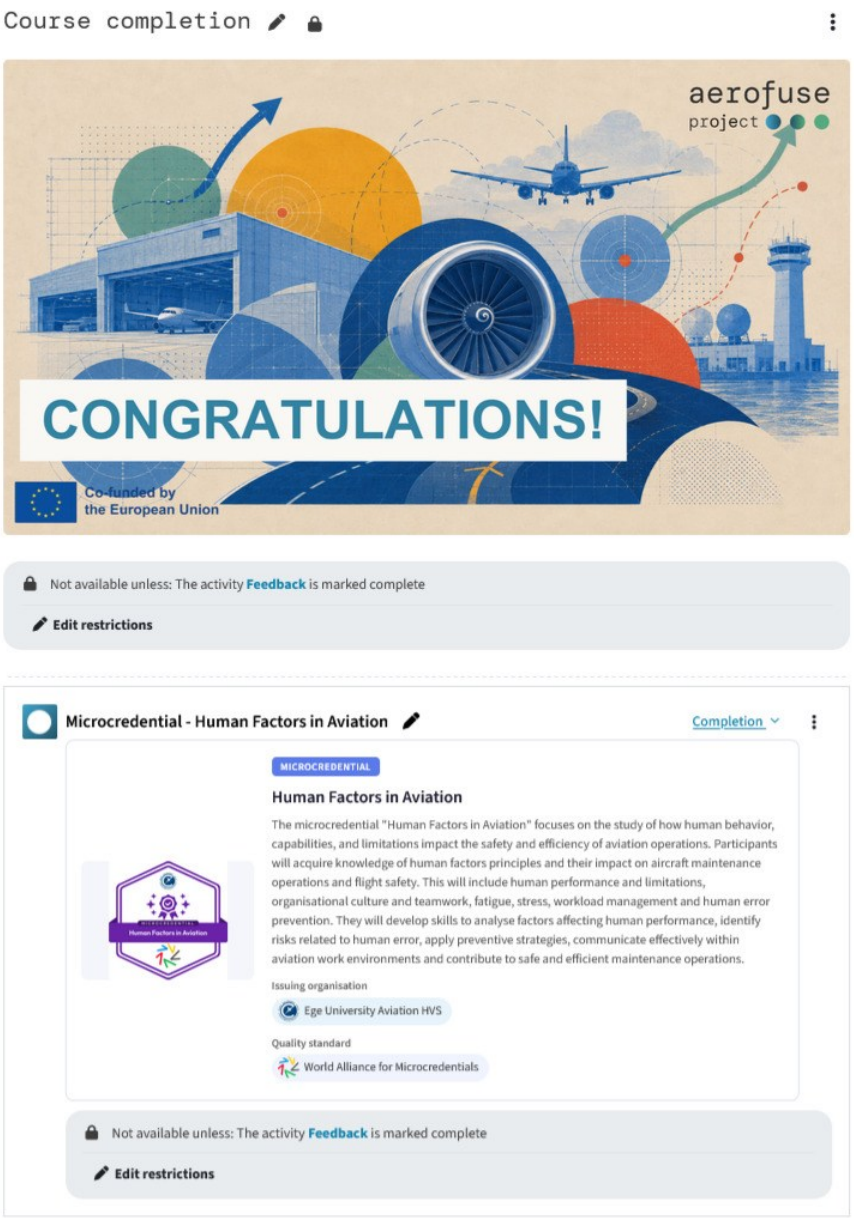
Screenshot 3 - Aerofuse Blended Learning Platform Landing page



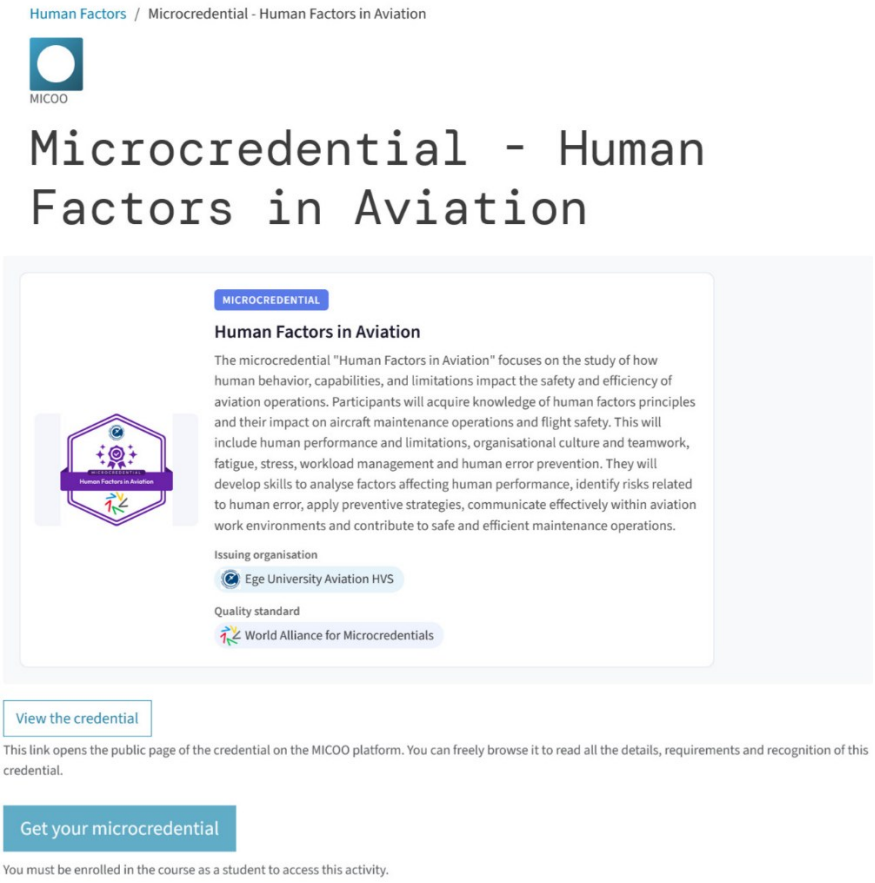
Screenshot 4 - Overview on the Tests concerning Microcredential issuing process



Screenshot 5 - Overview on Training module content resources and activities



Screenshot 6 - Learning Platform Course completion section



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.