



SPACE CERTIFICATE

SHAPING THE FUTURE OF SPACE INDUSTRY

Innovations, Technological Disruptions and New Models for the Space Sector



LEARNING OBJECTIVES

- Develop a forward-looking understanding of the transformations shaping the space sector
- Design innovative collaborative solutions
- Expand your professional network within the space industry

As the space sector undergoes profound transformation, the SPACE CERTIFICATE provides a broader perspective on the scientific, technological and industrial shifts shaping its future. Drawing on the expertise of ISAE-SUPAERO and its partners, the programme connects research, innovation and industry, while a collaborative project enables participants to apply their learning, exchange perspectives and explore possible futures for the space sector.

PEDAGOGICAL APPROACH



TEACHING AND EXPERTISE

The programme runs over 12 days spread across 6 months and is structured into four learning modules. The two-day, face-to-face sessions include lectures, expert talks, case studies, industrial site visits, and work on a collaborative project. Sessions are delivered by ISAE-SUPAERO faculty, as well as academic, institutional and industry experts.

PROJECT-BASED APPROACH

Participants work in teams on a strategic and operational challenge addressing the future of the space sector, selected from a range of major issues facing the industry. They develop a well-grounded analysis, drawing on insights from the experts and professionals they meet throughout the certificate.

These projects include:

- **Professional deliverables**
- **A final presentation to a jury**

MICROLEARNING

Before each on-site training session, participants will engage in microlearning modules. Key topics will then be debated during face-to-face sessions.

AUDIENCE



- **Language:** French
- **Space professionals** (5+years of experience) with a collaborative mindset and established industry connections-keystone players in the space ecosystem
- **Professionals transitioning into the space sector**



EVALUATION & CERTIFICATION



- **Project** (40%): Relevance, innovation, feasibility, and presentation quality
- **Quizzes** (30%): Validation of acquired knowledge
- **Participation** (30%): Attendance and workshop contributions

Certificate of Competency issued by ISAE-SUPAERO, listing validated skills.

JANUARY - JUNE 2027 SESSION

MODULE 01

JANUARY 7-8, ISAE-SUPAERO

UNDERSTANDING THE NEW ERA OF SPACE

Develop a comprehensive understanding of the sector's evolution and the major scientific, technological, geopolitical and industrial challenges shaping its future.

- 1.1 Transformations in the space sector and its systems
- 1.2 New balances within the space sector
- 1.3 Industry testimonials
- 1.4 Team project: launch

MODULE 02

FEBRUARY 4-5, IRT ST-EXUPÉRY / MARCH 4-5, ISAE-SUPAERO

IDENTIFY AND ASSESS BREAKTHROUGH TECHNOLOGIES FOR SPACE

Identify and understand technological innovations that will transform space systems, applications, and production methods. Analyse the conditions for their development in the context of the environmental transition and the shift towards series production.

- 2.1 AI: Understanding the paradigm shift
- 2.2 AI: Applications (lab visit)
- 2.3 Advanced materials and additive manufacturing
- 2.4 Team project: defining the project scope
- 2.5 Quantum technology : what paradigm shifts for space sector
- 2.6 Robotics and autonomy
- 2.7 Innovation in support of environmental goals
- 2.8 Team project: Exploring relevant solutions

➤ AI / Advanced manufacturing / Quantum technologies

MODULE 03

APRIL 1-2, AIRBUS / APRIL 29-30, COMAT-CONNEKTICA

FROM INNOVATION TO INDUSTRIAL SCALE

Understand the technical, industrial, economic and environmental conditions required to turn an innovation into a space product, process or service that can be industrialized.

- 3.1 Specifying for production
- 3.2 Design-to-cost
- 3.3 Transitioning from R&D to serial production (site visit)
- 3.4 Team project: formulating a solution
- 3.5 NewSpace and its industrial characteristics
- 3.6 NewSpace and its industrial characteristics (site visit)
- 3.7 Industrialisation: digital technologies, AI, and modularity
- 3.8 Team project: defining the industrial roadmap

- From prototype to space product
- Digitalisation of processes
- Industrialisation pathways
- LCA, economic and energetic models

MODULE 04

JUNE 3-4, ISAE-SUPAERO

SHAPING THE SPACE INDUSTRY OF TOMORROW

Place technological, industrial, and environmental transformations into perspective in order to anticipate potential futures for the space sector. Identify the associated skills, organizations, and industrial models.

- 4.1 What futures for the space sector in 2040?
- 4.2 Project: preparing the project presentation
- 4.3 Project: presentation before a jury
- 4.4 Outlook and conclusion



This certified program is designed by **ISAE-SUPAERO** and supported by the **COMETES program (France 2030)**.

Sessions are led by **ISAE-SUPAERO** faculty and researchers, as well as experts from **CNES**, **IRT-ST Exupéry** and partner companies.



Registrations: before December 10, 2026

CONTACT

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TOTAL TRAINING HOURS: 96

42h: Lectures & workshops
21h: Team project & mentoring
10h: Company visits
20h: Personal work
3h: Microlearning

FEES

- Launch price*: 1,000€
- Contributor rate: 500 €

*2026-27: launch price.
Standard pricing (€5,000) will apply from the 2027-2028 session.