



## Participants

The certificate is intended for a wide audience. It is accessible to the scientists but also to the participants with no scientific background (NGOs, EndUsers, Scientists, International Agencies, Politics, Managers, etc) and who want to get knowledge or specialize in Earth Observation and applications.

## Aims of the programme

To provide knowledge and knowhow in the fields related to Earth Observation for environmental issues and civil issues.

**This certificate is sponsored by Thales-Alenia-Space.**

## Organisation

**Course duration:** 120 hours, in April.

**Teaching language:** English.

**Location:** ISAE-SUPAERO - Toulouse.

## Syllabus

The Certificate in Earth Observation & Application is a 4-week programme that focusses on EO applications

Each week is dedicated to one specific topic :

**Week 1- EO-related Observation Systems :**

Introduction to Earth Observation Systems, Satellite System, Payloads & Sensors, Mission Analysis & Image Quality, Ground Station, Clouds & Data, Image Processing & Data Analysis...

**Week 2 - Science, Environmental, Social & Political Issues :**

EO & COP on Climate Change, Earth Science (Climatology & Glaciology, Oceanography, Forests & Vegetations, Hydrology & Water Cycle, Atmosphere & Meteorology), Sustainable Development, Natural Disasters, Humanitarian Issues...

**Week 3 - Services, Business & Law :**

Business in EO, New Space & Newcomers, Law in Earth Observation, Geographical Information Systems, Applications (Forest Management, Agriculture, Oil, Gas & Mining, Coastal Issues, Civil Surveillance...), Focus on Copernicus Program, EO for Local Authorities...

**Week 4 : Intelligence & International Issues :**

Geo-Intelligence, International & Strategic Issues, EO & Political Issues, National Space Policies...

Further information and registration:

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