

Competency Based Approach and Licensing Authority

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Direction générale de l'Aviation civile Ministère de la Transition écologique et solidaire



ET SOLIDAIRE

Plan

Role of the Licensing Authority

The Hard questions

The Scenario Approach





The Licensing Authority

Role of the Licensing Authority

Cf ICAO Annex 1

- Assessment of an applicant's qualifications to hold a license or rating;
- Issue and endorsement of licenses and ratings;

Unchanged as long as Training Programme is approved

- Designation and authorization of approved persons;
- Approval of training courses;

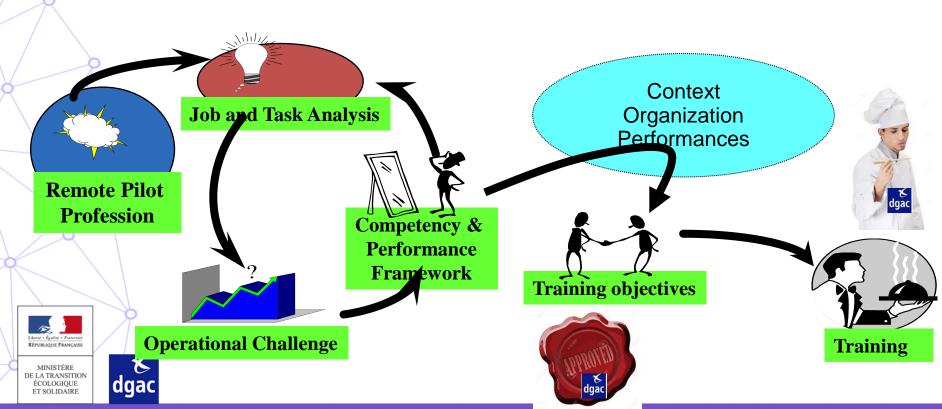
Challenging

- Approval of training facilities; and
- Validation of licenses issued by other Contracting States.

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Need a Common Framework

From Identification of Competencies to Training



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Hard questions



Defining Competencies for Remote Pilots

Our challenge:

Structure the Competency-Based Framework to express all the competencies without describing the variety of contexts and technological conditions.

The next challenge:

Assess the performances attached to these Competency-Based Frameworks.



Flexibility versus Stability

- ☐ The competency and licensing scheme shall adapt to the variety of operational situations
 - A common set of expected behaviors and observable performance
 - Some flexibility in the level of taxonomy
- Necessity to appreciate the context and challenges of operational environment to approve the training scheme
 - Basic competencies
 - Specific to the operation: RPA, mission...
- Do not over regulate to be able to follow the evolution
 - Preventive regulation
 - Reactive regulation or "smart" regulation
- A robust Return of Operational Experience process shall be put in place to ensure efficiency of the training scheme
- ☐ Harmonization through best practices sharing

Approving the Training Organization and the facilities

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The scenario Approach

1 National regulatory framework

French regulatory framework for civil unmanned aircraft includes **two national orders** (initially published in 2012 and reviewed in 2015):

Order « Airspace »

Order of 17th december 2015 relating to airspace use

Order « Aircraft »

Order of 17th december 2015
relating to unmanned aircraft
design, conditions for their use and
skills required



- ☐ To preserve safety and security
- ☐ To foster the development of UA activity
- ☐ To guarantee fair access to airspace and aerodromes to all users (HEMS, military traffic, aerial work, general aviation ...)





1 Type of use

French regulation built around three **types of use**:

Model aircraft

Use of an unmanned aircraft for **leisure and** competitions ("model aircraft")

Experimentation

Use of an unmanned aircraft (other than a "model aircraft") for **testing or controlling**

Specialized operation

Use of an unmanned aircraft for **other operations** (other than model aircraft and experimentation) whether or not there is a commercial transaction





Current situation: professional activities (specialized operations)



SCENARIO 2

BVLOS

Non-populated area

- Distance ≤ 1 km
- Height < 50 m (height< 150 m if mass $\leq 2 \text{ kg}$
- Clear of clouds
- Safety perimeter

SCENARIO 4

Non-populated area

- Distance (no limit)
- Height< 150 m
- Mass ≤ 2 kg
- Clear of clouds
- Overflight of

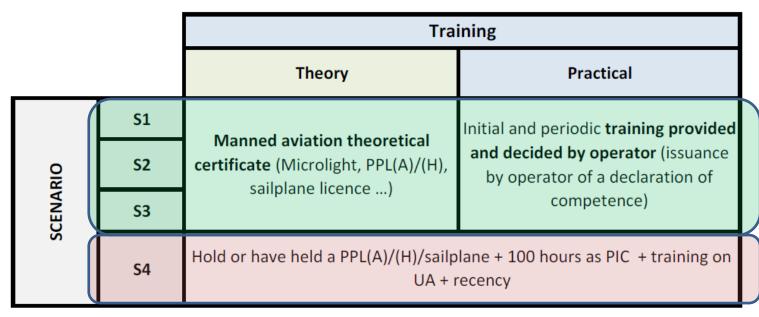


Rmk: Specific authorization on a case by case basis for flight not covered by a scenario



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1 | Current situation: professional activities (specialized operations)





Evolution for professional activities (specialized operations)

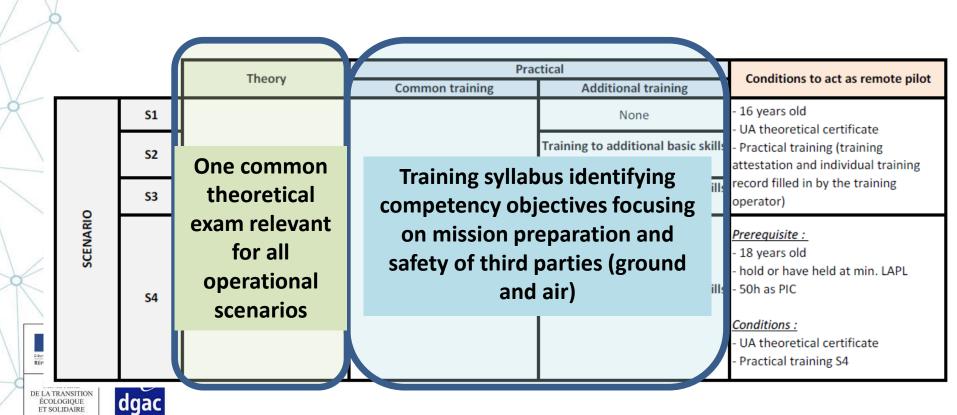
Context

- ☐ Since February 2014 **request from profession** to have a specific theoretical exam fitting more professional remote pilot expectations
- □ DGAC launched in February 2015 (before the bill) a **review of the competency framework for remote pilot operating under specialized operations** framework

Main principles

- Learning objectives (LOs) published to enable training providers to propose theoretical/practical training and to develop training material
- ☐ A common and specific UA theoretical examination covering all scenarios (questions and syllabus established in cooperation between DGAC, Industry, French army ...)
- ☐ Non certified training providers (operator declaration)
- No Self-training: Training Organization shall attest success in the agreed training objectives

2 Evolution for professional activities (specialised operations)







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