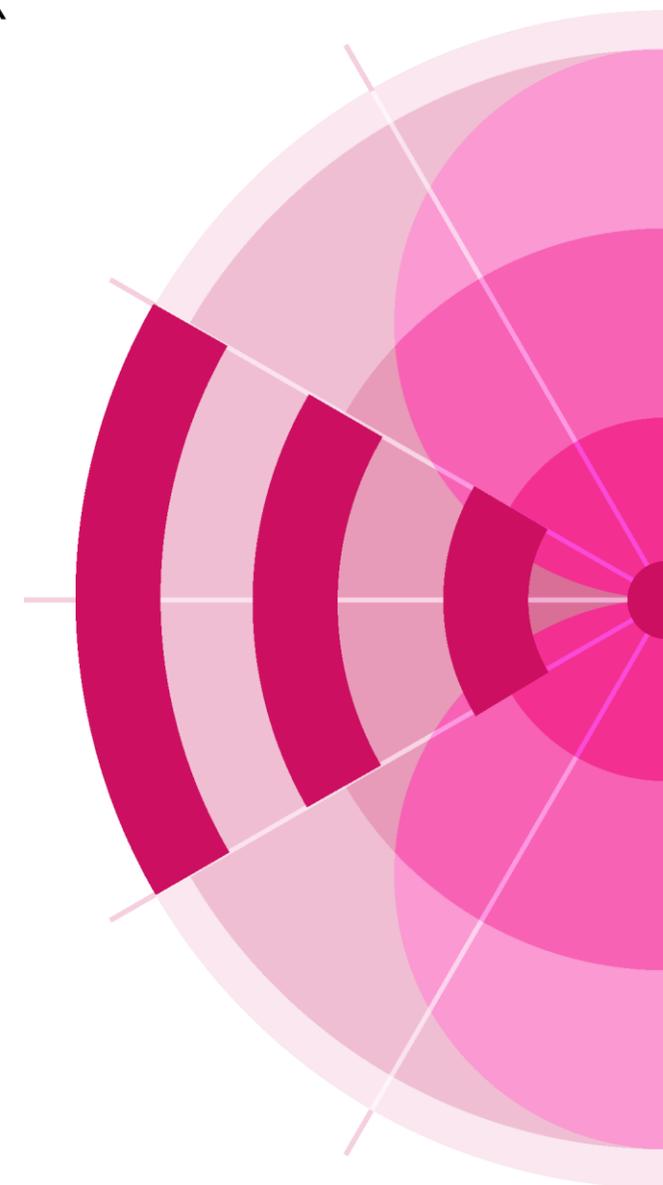


**ITUWRS**  
ONLINE2020

29<sup>TH</sup> WORLD RADIOCOMMUNICATION SEMINAR

**30 November - 11 December 2020**

# ITU Spectrum Management Training Programme (SMTP) at a glance



[www.itu.int/go/wrs-20](http://www.itu.int/go/wrs-20)

#ITUWRS



# PRESENTATION OUTLINE

**Addressed Problem and Solution**

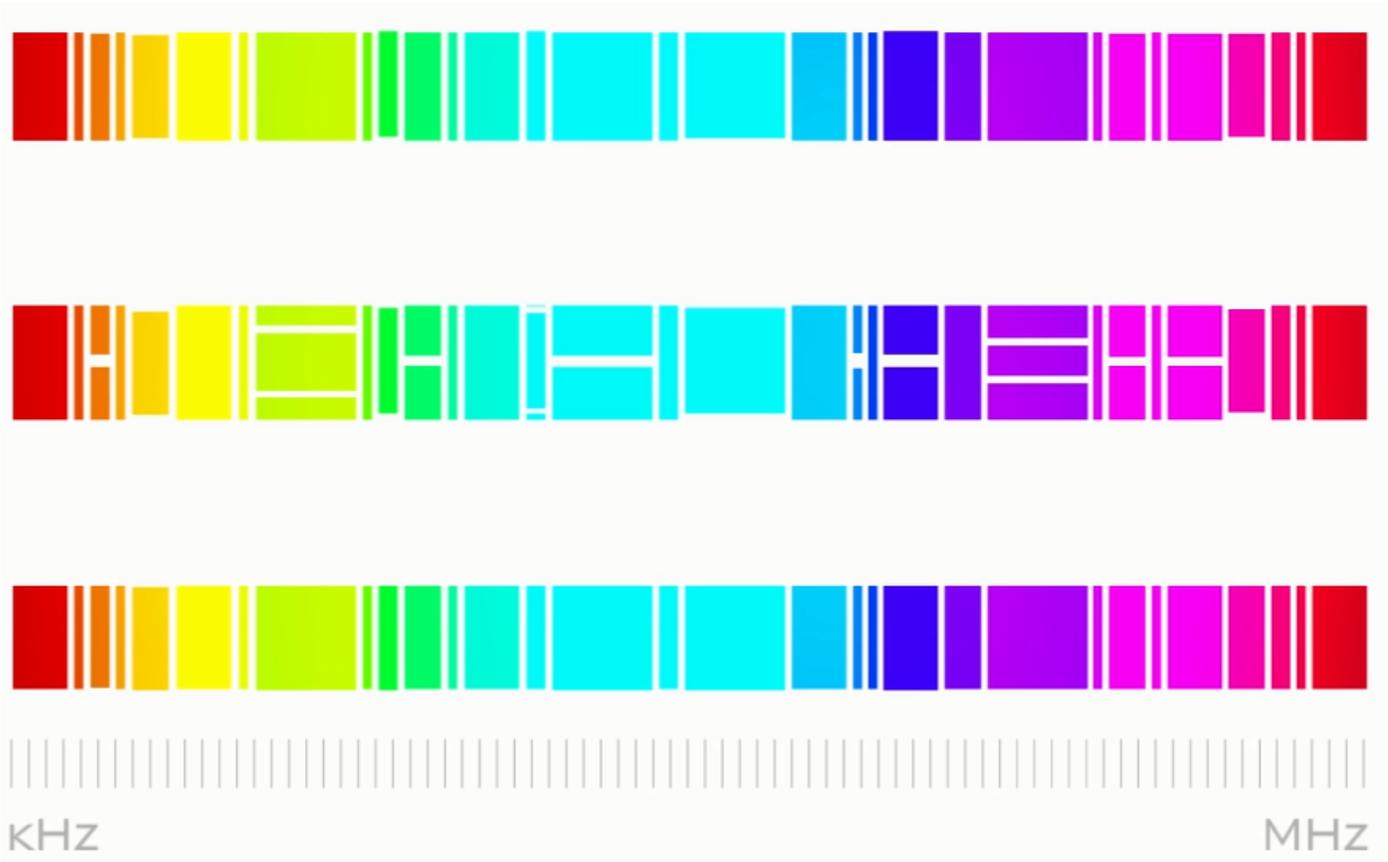
**Structure, Composition and Certification Routes**

**Latest Developments**

**Delivery**



# Addressed problem



- **No formal holistic SM education programmes;**
- **Current training in SM achieved through secondments in large administrations;**
- **Small administrations who cannot use secondments are not able to train.**

# The Solution

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The ITU establishes the SMTP:

- Access to state-of-the-art holistic SM training and forward-looking professional vision;
- Formalized assessment;
- Certification to give international recognition, with possible option of university credits/diploma.



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# SMTP SPECTRUM MANAGEMENT TRAINING PROGRAMME

AN ITU ACADEMY INITIATIVE



<http://academy.itu.int>



# SMTP Modules Structure



**16 Modules in total**



**9 Modules at Basic level and 7 Modules at Advanced level**



**Basic Level:**

3 Obligatory modules  
1 Elective out of the  
6 Electives



**Advanced Level**

2 obligatory  
2 Elective out of 5  
Electives.

# Composition of the programme- Basic Level

## Obligatory Modules (OM):

- OM1 Legal Basis and Regulatory Framework of SM
- OM2 Spectrum Engineering Fundamentals
- OM3 Wireless Telecommunications Technologies

## Elective Modules 1 (EM 1)

- EM1-1 Spectrum Monitoring
- EM1-2 Enforcement and Type Approval of Equipment
- EM1-3 SM for Satellite Systems
- EM1-4 SM for HF Systems, Science, Maritime and Amateur Services
- EM1-5 SM for Aeronautical and Radio Determination Services and Military Systems
- EM1-6 Computer-aided Spectrum Management

# Composition of the programme-Advanced Level



## Obligatory Modules (OM):

OM4 Economic and Market Tools of Spectrum Management

OM5 Strategic Planning and Policies for Wireless Innovation



## Elective Modules (EM2). Legal Specialization:

EM 2-1 Advanced Spectrum Authorization Regimes

EM 2-2 Socio-Economic Impact of Spectrum Regulation; Competition and Consumer Protection



## Elective Modules (EM2). Technical Specialization:

EM 2-3 Terrestrial TV Broadcasting Planning and Digital Transition

EM 2-4 Opportunistic Spectrum Access and Cognitive Radio

EM 2-5 Electro Magnetic Fields and Health

## GUIDELINES FOR TEACHERS:



Power Point slides to fill 30 hours of lecturing per module



20 slides per lecture with a total of 600 slides per module



10 hours of tasks for practical exercises / lab (where applicable) per module



Exam quest for testing (50-100 questions)

## GUIDELINES FOR STUDENTS:



125 hours per module, 40 hours of classroom training



4-5 weeks – module duration



All modules can be completed in no more than 1 year



60-90 European Credit Transfer and accumulation System (ECTS) credits for the whole SMTP



Combination of face-to-face sessions, remote teaching and self-studies



Formal assessment the end of module

# PROGRAMME DURATION

# Certification Routes

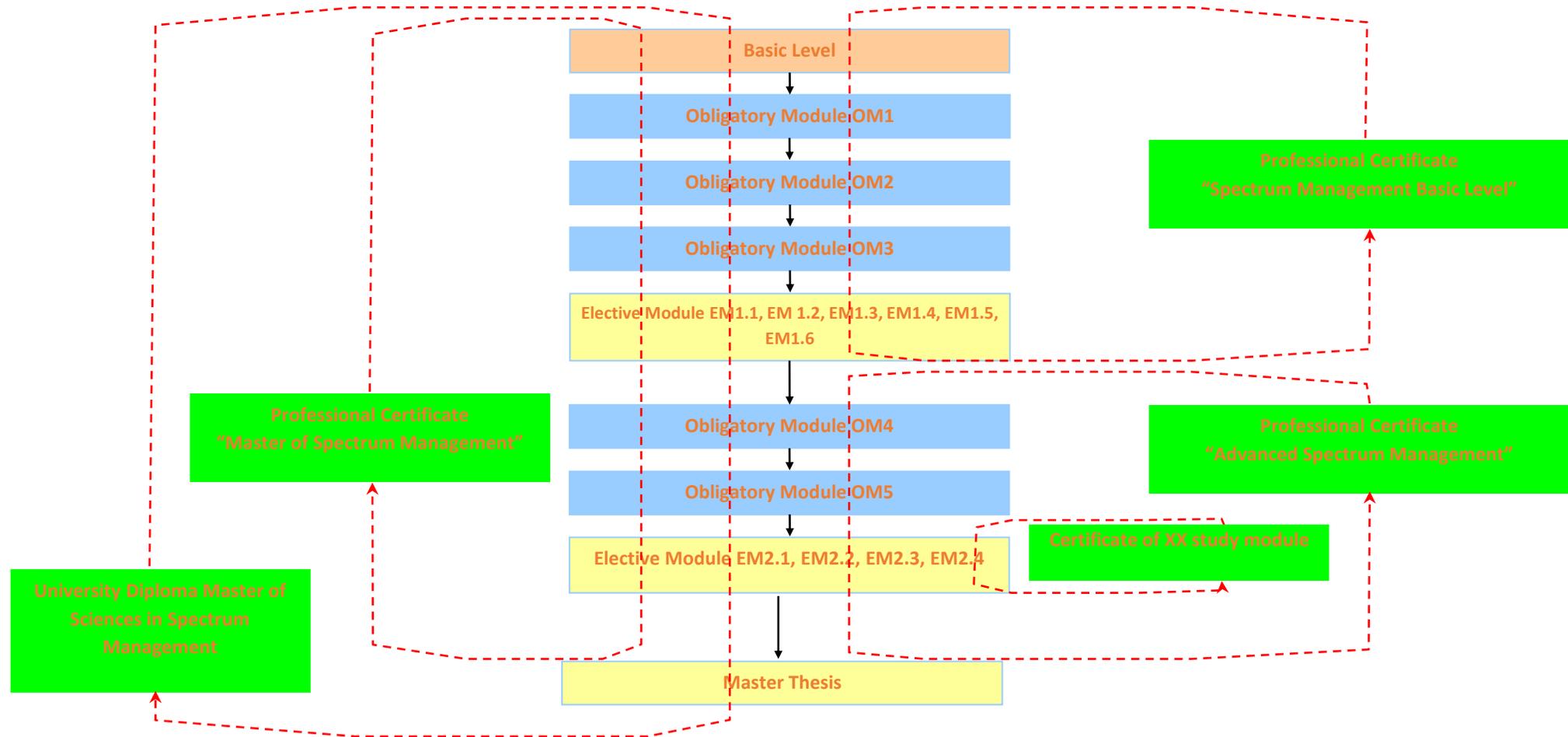


Figure 2. Possible derivative options for university or professional, full or partial certification levels



# LATEST DEVELOPMENTS

## **Translation**

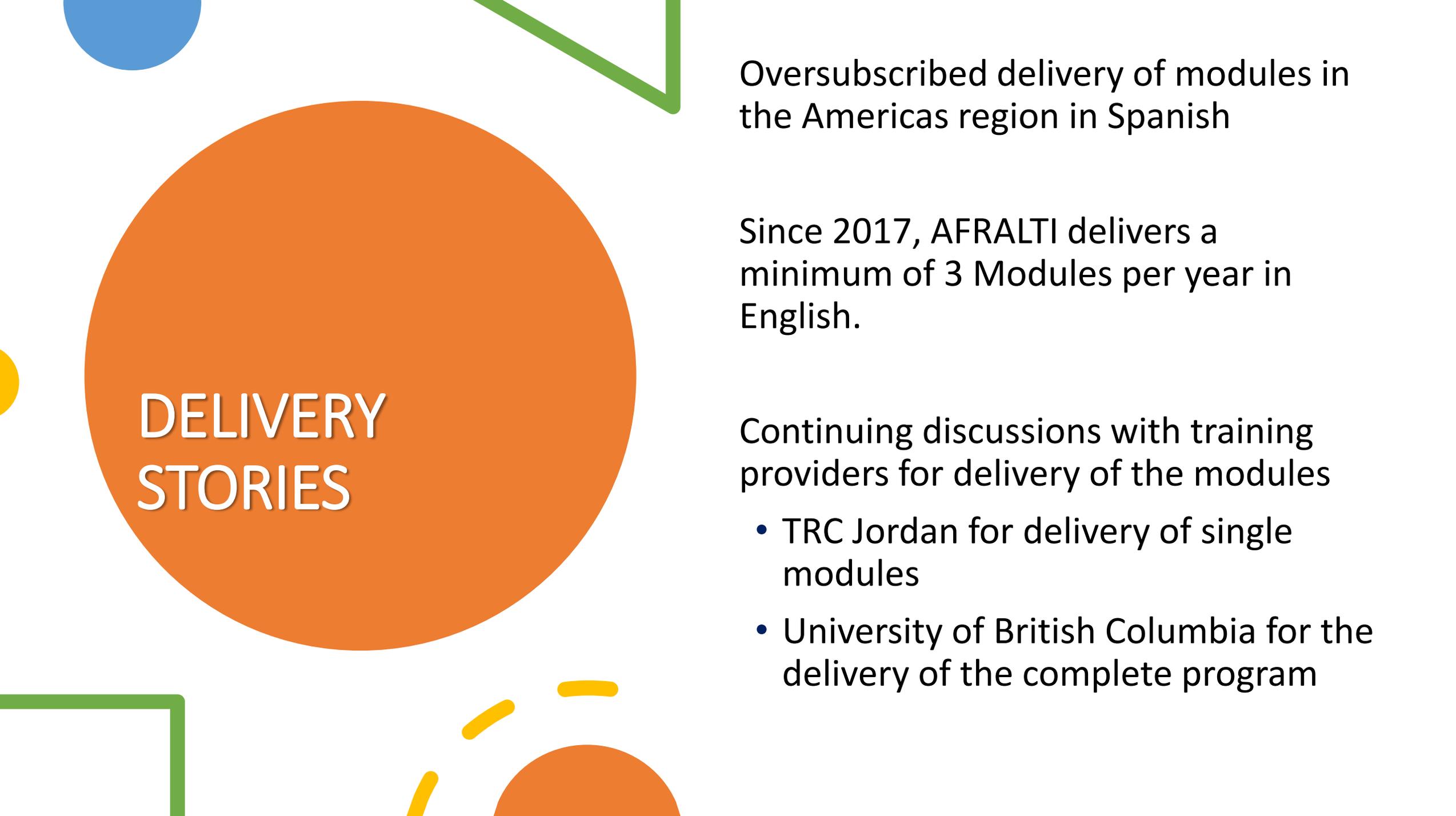
- Translated into Spanish
- Translation into French ongoing (3 modules translated)
- Translation into Arabic to begin in 2021

## **Modules accredited as equivalent to level 7 of ECTS (Masters degree)**

- Accreditation up to 2023
- Review of accreditation will consider updates to respond to changing technologies

## **Addition of the EM2-5 module on EMF and Health**

**Review and updating ongoing – to be completed in December 2020**



## DELIVERY STORIES

Oversubscribed delivery of modules in the Americas region in Spanish

Since 2017, AFRALTI delivers a minimum of 3 Modules per year in English.

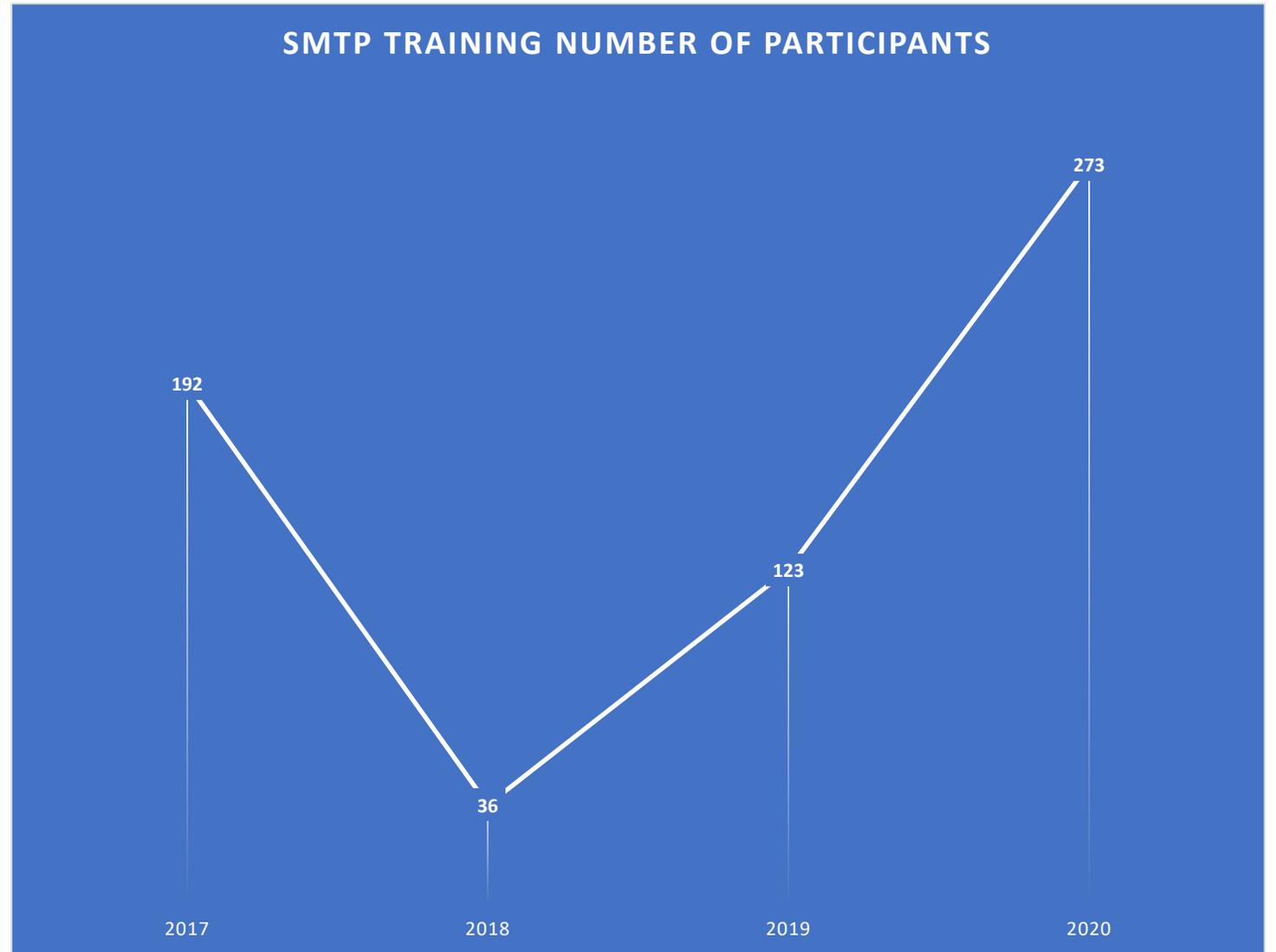
Continuing discussions with training providers for delivery of the modules

- TRC Jordan for delivery of single modules
- University of British Columbia for the delivery of the complete program

## DELIVERY STORIES

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- Increasing number of courses
- Increasing number of participants
- Increasing number of languages for delivery



# Call for partners



Any training institution that is interested to partner with ITU for delivery, Trainers, Peer reviewers



Contact, or write to



ITU Capacity and Digital Skills Development Division



[hcbmail@itu.int](mailto:hcbmail@itu.int)



# Thank you!

ITU – Capacity and Digital Skills Development Division

Questions to [hcbmail@itu.int](mailto:hcbmail@itu.int)

