



| ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY



Future Work (Related to Frequency Finder)

Prepared by

Loftur Jónasson, ICAO/HQ
Mie Utsunomiya, ICAO/HQ
Fabiola Chouha, ICAO/HQ
Isaiah Tefutor, ICAO/HQ
Robert Witzen



CURRENT WORK ON FREQUENCY FINDER

In order to better support States and ICAO regional offices, ICAO has successfully further enhanced and implemented the following features to Frequency Finder tool:

- 1) Plotting interference contours in the NAV module;
and
- 2) A global database for Mode S II/SI code assignments.



Other enhancements planned to be developed and implemented in near future

Enhancements to the ICAO FF Tool will assist the efficient use of spectrum and planning of frequency assignment globally and regionally, achieving results such as

- Add keyhole coverage indication when appropriate;
- Add better cyber resilience of the FF tool;
- Add simulation capability to assist more efficient frequency assignment planning for ICAO States;
- Add updated FIR data
- Add a capability not to indicate exact SSR site locations



ONLINE COURSE DEVELOPMENT RELATED TO **FREQUENCY MANAGEMENT FOR CIVIL AVIATION**

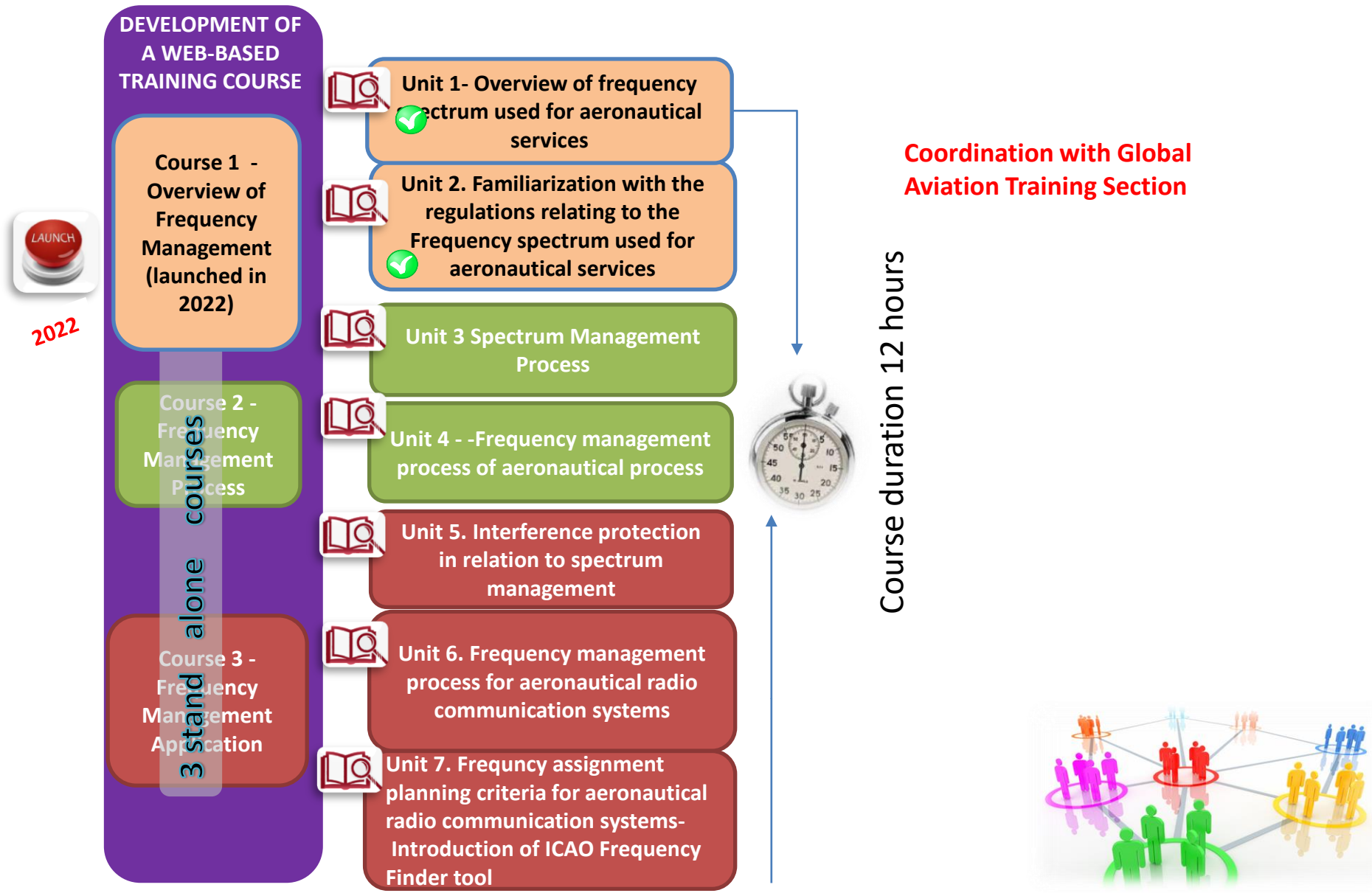
ONLINE COURSE DEVELOPME NT RELATED TO FREQUENCY MANAGEMENT T FOR CIVIL AVIATION

Objectives and expected benefits:

The Fundamentals of Frequency Management Online Programme will be composed of three new self-study online courses based on the content provided by the ICAO DOCs/ Manuals. The intent is to offer these courses as independent courses or combined, however, remaining a prerequisite to the participation at the regional workshops. These courses will provide an overview of frequency spectrum used for aeronautical services as well as offer a familiarization with the regulations. Furthermore, the material covering frequency assignment planning criteria for aeronautical radio communication systems will be covered, which includes including an introduction of ICAO Frequency Finder tool.

- Upon completion of this course, the participants will be able to:
 - explain the fundamentals of frequency management and the fundamentals of spectrum management;
 - identify the spectrum management process and identify the specific process of frequency management and spectrum management related to aeronautical services and aeronautical communication system operations;
 - describe and understand interference protection in relation to spectrum management;
 - identify the differences between spectrum management and frequency management from aviation perspective; as well as
 - understand the Frequency Assignment planning criteria for aeronautical radio communication systems, which includes the introduction to the ICAO Frequency Finder tool.

ONLINE COURSE DEVELOPMENT RELATED TO FREQUENCY MANAGEMENT FOR CIVIL AVIATION



ONLINE COURSE DEVELOPMENT RELATED TO FREQUENCY MANAGEMENT FOR CIVIL AVIATION

To be adequately prepared for attending the Frequency finder workshop and to gain the necessary frequency management basics,
it is recommended to take the following online web course.

“Aeronautical Spectrum Use with Special Focus on VHF”

(<https://store.icao.int/en/aeronautical-spectrum-use-special-focus-training>)



Description

Goal

This course aims to provide the fundamentals of frequency and spectrum management, focusing mainly on Very High Frequency (VHF) used by aeronautical communications systems, as well as a description of the specific terms used in frequency management in civil aviation including a brief discussion about aeronautical communications and navigation systems.



Thank You!