

Regional Training Centre

PRETORIA



Aviation Forecasting

Based on the ICAO AMF competency criteria standards

4 month Blended learning course with RTC competency certificate

Part 1

12 Week Distance Learning activities on Moodle. Resources are provided and activities need to be completed in order to achieve the Learning Outcomes.

Part 2

3 Week Classroom phase at RTC Pretoria.

1 Week Compilation of PoE aligned to AMF competency standards.

Forecast Simulations are conducted covering the forecasting and warning of the 8 different hazardous weather phenomena with Feedback.

Pre-requisite requirement is a BIP-M with previous forecasting experience and English proficiency

Analyse and monitor continuously the weather situation

Analyse and diagnose the weather situation as required in forecast and warning preparation and monitor weather parameters and evolving significant weather phenomena.

Forecast aeronautical Meteorological phenomena and Parameters

Forecast the following weather phenomena and parameters:

- *temperature and humidity
- *wind
- *QNH
- *clouds
- *precipitation
- *fog or mist
- *other types of obscuration
- *hazardous weather phenomena
- *wake vortex advection /dissipation.
- ◆ Ensure that forecasts are prepared in accordance with ICAO Annex 3, WMO-No.49 and are consistent (spatially and temporally) across boundaries of the area of responsibility.

Warn of hazardous phenomena

Forecast the following hazardous weather phenomena, including spatial extent, onset, duration, and intensity:

- *Thunderstorms
- * Turbulence
- * Moderate and severe low-level wind shear
- * Moderate and severe Aircraft icing
- * Hazardous phenomena affecting aerodromes
- * Sand- and dust storms
- * Volcanic ash
- * Tropical cyclones.
- ◆ Ensure that warnings are prepared in accordance with ICAO Annex 3, WMO-No.49

Ensure the quality of meteorological information and services

- ◆ Apply the organization's quality management system and procedures.
- ◆ Assess the impact of known observational error characteristics on forecasts and warnings.
- ◆ Validate aeronautical meteorological data, products, forecasts and warnings using real-time checks.
- ◆ Monitor the functioning of operational systems and take remedial actions when necessary.

Communicate meteorological information to internal and external users

- ◆ Ensure that all forecasts/warnings are disseminated through the authorized communication channels.
- ◆ Explain aeronautical meteorological data and deliver weather briefings.

Contact Details

REGIONAL TRAINING CENTRE

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When making enquiries regarding this course that is offered through the South African Weather Service, please quote the following reference number:-

RTC-AMF-2016