

# Regional Training Centre

PRETORIA



## Aviation Forecasting

**ICAO AMF competency criteria standards**

6 to 8 Weeks Blended learning course with RTC competency certificate

### Online phase

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

### Face-to-face phase

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

Previous forecasting Experience and proficient in English language: 2 Week Classroom phase at RTC Pretoria with compilation of PoE aligned to AMF competency standards

Limited forecasting experience and/or limited command of the English language: 4 Week Classroom phase at RTC Pretoria with compilation of PoE aligned to AMF competency standards

**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**