

Teaching programs on Basic Meteorological Training Course

(For Science and engineering major)

CMA Training Centre

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Teaching programs on Basic Meteorological Training Course

I. Training objectives

The goal of the training courses is to popularize basic knowledge of meteorology for new CMA recruits holding a university undergraduate or higher degree in science and engineering but not in meteorology (including doctoral candidates, post-graduates and undergraduates), to enable them to understand basic meteorological disciplines in concept, principle and methodology, to familiarize themselves with meteorological operational processes and management practices, laying a necessary knowledge base for engaging in meteorological operation, services, scientific research and management.

II. Trainees

The holders of a university undergraduate or higher degree in science and engineering but not in meteorology (including doctoral candidates, post-graduates and undergraduates) who will engage in meteorological operation, services, scientific research and management.

III. Training Period

Thirteen weeks.

IV. Teaching Mode

Off-job and full-time training.

V. Basic requirements

To understand basic and fundamental meteorological theories; to be familiarized with meteorological operational processes and management practices; and to be informed of the latest developments in meteorological science.

VI. The main training courses and class hour arrangements

The main training courses include basic meteorological theories, meteorological operational processes and management practices, as well as special meteorological courses. The total class hours are 390 (during such a training event, there are five learning days per week, with six class hours per day and two hours for self-study; the additional self-study time includes evening, Saturday and Sunday).

1. Basic meteorological theories

There are a total of 330 class hours for basic meteorological theories, accounting for 85% of the total detailed as below:

No.	Course Title	Class Hour	Percentage (approximately)
1	Introduction to Atmospheric Sciences	60	16 %
2	Atmospheric Sounding Science	70	18 %
3	Synoptic Meteorology	108	28 %
4	Climatology	40	10 %
5	Dynamic Meteorology	52	13 %
Total		330	85 %

2. The meteorological operational processes and management practices

There are a total of 20 class hours for meteorological operational processes and management practices, accounting for 5% of the total.

3. Special meteorological courses

There are a total of 40-hours special meteorological courses, accounting for 10% of the total.

The special meteorological courses, which will be developed by the training institutions respectively based on their actual situations, will be implemented after approval by CMA Department of Human Resources.

VII. Trainers

The qualified teachers in the training institutions will bear the primary task of teaching, and some experts from outside will be invited as appropriate.

VIII. Textbooks and reference books

The main materials will be the textbooks developed by the training institutions, and additional reference books will be provided when necessary.

IX. Examination or assessment

The examination or assessment will be a combination of closed-book exams, open-book exams and book reviews/reports, with a closed-book exam for all basic meteorological theory courses. A certificate will be granted to those who have passed the examination.