

Numerical Weather Prediction (NWP)

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TRAINING POINT OF CONTACT: Tom Schlatter, NOAA-FSL, 303-497-6938, schlatter@fsl.noaa.gov

PROGRAM/PROJECT DESCRIPTION: Model Development and Enhancement (MD&E)

More timely and precise forecasts of aviation-specific weather hazards through improvements to systems for operational numerical weather prediction by 1) exploiting available observations, some still largely ignored, to improve analyses of wind, cloud, and moisture fields – a prerequisite to better cloud forecasts, 2) defining the detailed wind and cloud features required to forecast turbulence, icing, convection and cloud ceiling, and 3) improving the model's internal representation of cloud development, including convective storms.

I. TRAINING REQUIREMENTS:

A. Trainees

B. Skill Level of Designated Trainees

DoD Forecasters/Meteorologists

Air Force

⇒ Officer

Fully Qualified

Navy

⇒ Officer

Forecaster

National Weather Service

⇒ Forecasters/Meteorologists

Senior Forecaster Science and Operations Officer

Warning Coordination Meteorologist Meteorologist-in-Charge

Hydro-Meteorological Technician Incident Meteorologist (e.g. Fire Weather)

Center Weather Service Unit Meteorologist Applied Research Meteorologist

University/Laboratory

Research Scientist

Private Sector

⇒ Broadcast Meteorologists

NWA or AMS Certified

⇒ Forecasters

Senior Forecaster

⇒ Researchers

Doctorate

⇒ Consultants

AMS Certified Consulting Meteorologist

C. Training Required

Advanced Knowledge Advanced Task Performance

II. TRAINING DEVELOPMENT/DELIVERY:

A. Training Program Status

Determination of Training Requirements (Current)

Determination of Training Concept (Current)

B. Training Method

Laboratory (Demonstration/Performance, Research Lab)

On-the-job Training (Operational Area)

C. Training Delivery Resources

Operational System

D. Training Provider

⇒ NOAA

⇒ FAA

E. Training Measurement

No Formal Measurement

F. Training References

Technical References

G. Training Completion Documentation

No Documentation Required

III. TRAINING IDENTIFICATION/DESCRIPTION

A. Training Identification

Other Identification: COMET training modules incorporate MD&E, WW Webb <http://comet.ucar.edu>

Location: TBD

B. Training Length **TBD**

C. Group Size **TBD**

D. Trainer to Trainee Ratio **TBD**

E. Point of Contact to Request Training

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