

# Work Processes Schedule

## METEOROLOGIST (PROFESSIONAL & KINDRED)

**RAPIDS: 0940N**

O\*NET/SOC: 19-2021.00

REVISION DATE: 12/2014

Collect, record and analyze weather and oceanographic information. Prepare up-to-date weather maps and oceanographic data. Issue weather forecasts and warnings; conduct weather/oceanographic briefings. Use, test, calibrate and perform minor and preventive maintenance on meteorological instruments including satellite receivers. Prepare balloon-carried instruments for flight. Evaluate and analyze data received. Operate, program and maintain computers and related equipment.

### Applicable Ratings/MOS

USMC MOS 6842, 6852

USCG MST

USN AG

### Related Instruction

Any trade related schools/courses totaling 432 hours

### Additional Requirement

None

Total Hours: **6000**

Skill	Description	Hours
A	<p><b>AVIATION PLOTTING, OBSERVING, AND FORECASTING</b></p> <p>Write terminal forecasts; write area synopses and route forecasts for weather broadcasts; plot and analyze weather maps and charts; verify forecasts; brief pilots; assist in map discussions.</p>	2000
B	<p><b>PLOTTING, OBSERVING, AND FORECASTING</b></p> <p>Plot synoptic surface charts; plot surface charts using aviation observations; plot constant pressure charts; plot Skew T, Log P diagrams, plot data from fallout warning messages; plot data from environmental warnings and advisories; determine tracking data from meteorological satellite pictures; plot upper air radiosonde observations; apply meteorological fundamentals of primary, secondary, and tertiary circulations of the earth's atmosphere and of types of weather associated with air masses, frontal systems, cyclonic and anticyclonic systems in drawing weather charts; compute fallout winds and construct radiological fallout plots from upper wind data; draw synoptic surface charts showing frontal systems; isobars, isallobars, and pressure centers; draw constant pressure charts showing isohypses, isotherms, troughs, ridges, and height centers.</p>	2000
C	<p><b>COMMUNICATIONS AND COMMUNICATIONS EQUIPMENT</b></p> <p>Operate radio receivers, facsimile, teletype equipment, minicomputers, telephone answering systems, videotape cameras and playback units, electronic data terminals. Identify, encode, and decode meteorological data. Use the following communications systems; FAA teletype network, National Warning System (NWS), Emergency Broadcast System (EBS).</p>	500
	<p><b>OTHER EQUIPMENT</b></p>	

<b>D</b>	Perform routine checks and operator's preventive maintenance for onboard meteorological equipment and instruments; prepare and maintain preventive maintenance schedules; use temperature-measuring equipment, wind-measuring equipment, cloud-measuring equipment, precipitation-measuring equipment.	500
<b>E</b>	<p><b>ADMINISTRATION</b></p> <p>Maintain directives, publications, and climatological records. Prepare weather summaries and news releases. Give oral weather briefings. Carry out disposal of environmental charts and records.</p>	400
<b>F</b>	<p><b>MISCELLANEOUS</b></p> <p>Prepare and issue forecasts (warnings, watches, and advisories). Compute astronomical and tidal data. Interpret oceanographic charts. Identify physical properties of sea water. Identify major oceanographic parameters (sea surface temperature, layer depth, and temperature gradients). Identify major current systems and water masses of the ocean.</p>	600