

JOB TITLE: HYDROLOGICAL TECHNICIAN I**JOB ID:** T0632**Old JOB Number:** 0**REPORTS TO:** HYDROLOGICAL TECHNICIAN 11**Date revised:** 1900-01-01**MINISTRY/DEPARTMENT:** MINISTRY OF AGRICULTURE, HYDROMETEOROLOGICAL DEPARTMENT

PURPOSE: To assist in processing hydrological charts and making measurements of hydrological variables for the monitoring and evaluation of the water resources of Guyana.

KEY OUTPUTS:

- Raw data and observations from stations.
- Processed hydrological data.
- Samples for sediment concentration and water quality analyses.

RANGE OF ACTIVITIES:

- Assists with the establishment of hydrological stations.
- Assists with the installation, maintenance and calibration of hydrological instruments.
- Assists in making stream discharge measurement.
- Assists in making datum checks.
- Assists in collecting water samples from rivers for sediment concentration and chemical analyses.
- Processes hydrological data.
- Assists with routine analytical, applied research and special investigation programmes.

MINIMUM QUALIFICATIONS, KNOWLEDGE AND EXPERIENCE:

- G.C.E "O" Level passes (ie. not lower than Grade C with effect from the June 1975 Examination) and/or passes at the CXC General Proficiency Examination, Grade 1, 11 or 111 and/or passes at the Basic Proficiency Examination, Grade 1 in at least four (4) subjects. Candidates must obtain at least one (1) subject in each of the three categories listed hereunder:

Category 1: English Language

Category 2 : Mathematics, Additional Mathematics

Category 3 : Physics, Physics with Chemistry, Integrated Science, Geography, Agricultural Science.

OR

- G.C.E "O" Level passes (ie. not lower than Grade C with effect from the June 1975 Examination) and/ or passes at the CXC General Proficiency Examination Grade 1, 11 or 111 and/or passes at the CXC Basic Proficiency English Language and one (1) of the following:

Mathematics, Additional Mathematics, Physics, Physics with Chemistry, Integrated Science, Geography, Agricultural Science, Electronics, Biology, Chemistry, Electricity.

PLUS

- A minimum of two (2) years satisfactory experience as a Hydrometeorological Technical Assistant

DECISION MAKING, PROBLEM SOLVING AND IMPACT ON RESULTS:

- The job holder follows guidelines set out by the World Meteorological Organisation and consults his/her supervisor and colleagues when difficult decisions are to be made. In the fields he/she invariably relies on his training and ingenuity when he has no supervision.

Inaccuracies in measurements cannot be corrected or repeated at another time as the conditions in the atmosphere and along a river would not be the same. This would cause a delay in completing project assignments and monetary wastage.

RESOURCE MANAGEMENT:

- The incumbent is supervised by the Hydrological Technician II. He heads a party of casual labourers and semi-skilled operators on field visits. His party may average five (5) persons. He is entrusted with a firearm and ammunition and with cash to effect payment to these personnel at the end of his work in the area. He carries cash and is responsible for equipment to the value of approximately five hundred thousand dollars (\$500,000.00)

COMMUNICATIONS: Job holder communicates laterally with his colleagues to enhance his problem solving techniques, vertically with his supervisor for advice and with Regional Executives to negotiate assistance in the Region where he operates.

WORKING CONDITIONS: Office - He works in the office under normal working conditions. When he prepares for a field trip, he is on the road for approximately two days doing purchases of field supplies, ration and fuel.

Field- In the field, the job holder travels to and works in the most remote and uninhabited areas of the country. His means of transport are land, water or air or a combination of these. He/she traverses dangerous rapids by outboard engine and boat or by paddle boat and steep hillside roads by vehicle. He/ she is exposed to the hazards of a virgin forest such as wild animals, poisonous snakes, the risk of malaria infection, black water fever, typhoid, cholera, etc. He spends over fifty (50) percent of his time on field assignments normally and lives under camp conditions.

PREPARED BY: SENIOR PERSONNEL OFFICER

CHECKED BY: PRINCIPAL PERSONNEL OFFICER