

1316,Hydrologic Technician,GS-03

Based on PD Tracking Number 0005091

PD Tracking Number 0005095

Major Duties

GS-1316-03 (Standard PD)

Major Duties

This position is assigned specific data collection and computation tasks designed to orient the employee to the practical application of the basic theories, principles, techniques, and processes of hydrologic technician work. Assignments may include, but are not limited to, the following:

Using established methods, performs routine measurements of stage and discharge, water levels, and/or water quality parameters such as temperature, specific conductance, and pH. Observes and notes various hydraulic or environmental conditions.

Performs simple data compilation and computation assignments designed to prepare material for publication and entry into various databases. Performs developmental assignments such as plotting discharge measurements on rating curves and/or hydrographs, plotting, drafting, or sketching surveying field notes, and computing and checking measurements for analyses and computation. Enters, manipulates, edits, and retrieves in standard format, hydrologic data using basic functions of software programs and databases such as QWDATA, ADAPS, and NWIS.

Following established procedures and protocols, inventories and performs simple maintenance on hydrologic instrumentation and analytical equipment. Assists in minor repairs and the construction of gages. Performs routine safety inspection of equipment and work area.

Participates as member of a field party performing various developmental assignments such as recording notes for leveling parties, flagging high-water marks, and collecting, processing, and packing routine water quality, sediment, and geologic field samples.

Operates a motor vehicle.

FACTOR STATEMENTS

FACTOR 1 - KNOWLEDGE REQUIRED BY THE POSITION (Level 1-2, 200 points)

Knowledge of basic hydrologic data collection and office computation methods, procedures, and techniques in order to perform a few repetitive tasks.

Ability to follow sequential standard procedures in order to collect and compute hydrologic data and obtain accurate results.

Fundamental computer skills sufficient to enter and retrieve hydrologic data from various

databases.

Knowledge of basic electronic technology and equipment mechanics in order to operate, maintain, and service simple hydrologic instrumentation and analytical equipment.

FACTOR 2 - SUPERVISORY CONTROLS (Level 2-2, 125 points)

Under the direction of the supervisor or a higher-graded employee, the incumbent receives general instructions with assignments. Routine and repetitive work is performed independently in accordance with established procedures. The incumbent receives additional guidance when problems are encountered. Completed work is reviewed for accuracy, adequacy and conformance with instructions.

FACTOR 3 - GUIDELINES (Level 3-1, 25 points)

Guidelines include a series of manuals on techniques of water resources investigations (TWRI), agency procedural directives, oral and written instructions and demonstrated methods of operating, servicing, and installing equipment and instrumentation. The majority of instructions are readily memorized and any deviations from instructions must be referred to the supervisor for decision.

FACTOR 4 - COMPLEXITY (Level 4-2, 75 points)

Assignments consist of specific data collection and computation tasks designed to orient the employee to the practical application of hydrologic theory and basic principles. Tasks are usually routine, requiring accuracy and attention to detail in order to follow an established sequence of data collection activities; to operate instruments and servicing equipment; and, to recognize anomalous situations that may adversely impact or affect measurements or data collected.

FACTOR 5 - SCOPE AND EFFECT (Level 5-1, 25 points)

The purpose of the work is to provide basic technical support to professional and technical employees in the collection and analysis of hydrologic data.

FACTOR 6 - PERSONAL CONTACTS (Level 6-1, 10 points)

Personal contacts are with employees in the immediate office.

FACTOR 7 - PURPOSE OF CONTACTS (Level 7-1, 20 points)

Contacts are to obtain advice and direction and to exchange information related to the daily work.

FACTOR 8 - PHYSICAL DEMANDS

(Level 8-1, 5 points)

{ } The work is mainly sedentary, but may require some walking and carrying of light items in offices, laboratories, and other work areas. Employees may also carry light items such as briefcases, notebooks, and work papers, or drive a motor vehicle. The work does not require any special physical effort or ability.

Or

(Level 8-2, 20 points)

{ } The work requires some physical exertion such as:

long periods of standing;

walking over rough, uneven, or rocky surfaces;

recurring bending, crouching, stooping, stretching, reaching, or similar activity; or

recurring lifting of moderately heavy items weighing less than 23 kilograms (under 50 pounds) such as lifting and carrying stream gauging weights, data collection and monitoring devices, or sample trays.

Or

(Level 8-3, 50 points)

{ } The work regularly requires considerable dexterity, agility, and strenuous physical exertion such as that needed to:

climb, or work from, tall ladders or scaffolding;

work in areas where footing is treacherous such as on slippery river banks, in steep or rocky terrain, and in fast-moving water;

lift heavy objects weighing 23 kilograms (over 50 pounds) or more;

crouch or crawl in constricted areas; and

defend oneself or others against physical attack.

FACTOR 9 - WORK ENVIRONMENT (Level 9-2, 20 points)

{ } The work is primarily outdoors and involves moderate or sometimes extreme exposure to the discomforts of rain, cold/hot weather, and rapidly running or icy streams and rivers. Special safety precautions are required in many cases; and the employee typically wears life jackets, special safety boots, waders, and reflective rain gear. Work is performed in a laboratory setting involving regular and recurring exposure to moderate risks, discomforts, or unpleasantness such as irritant chemicals.

Or

WORK ENVIRONMENT (Level 9-1, 5 points)

{ } Work is primarily performed in an office environment.

TOTAL POINTS - 490 - 520

GRADE CONVERSION - GS-03

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