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Electronics Engineer 11

GS-0855-11

NOTE: THE SENTENCE IN PART I DESCRIBING THE PURPOSE OF THE POSITION AND PARTS II AND III IN THEIR ENTIRETY ARE PERMANENT PARTS OF THE LIBRARY AND MAY NOT BE CHANGED OR EDITED IN ANY WAY.

I. INTRODUCTION

Serves as an electronics engineer for an organization, project or team providing a full range of electronics engineering services.

II. MAJOR DUTIES AND RESPONSIBILITIES

The incumbent engineer performs one or more of the following activities in a particular functional or subject-matter area: planning, designing, developing, constructing, altering, cost estimating, inspecting, testing, or reviewing electronics circuit elements, equipment, and subsystems that encompass a wide assortment of electronics material used in such activities as detection, ranging, viewing, illumination, surveying, data processing and voice and data transmission.

In the maintenance and operation of major equipment or systems, performs such duties as: developing or evaluating adequacy of maintenance programs, training equipment and materials, operating manuals, and repair procedures; inspecting newly installed or modified equipment and systems for conformance to performance requirements; prescribing corrective measures as practicable; resolving equipment failure or unsatisfactory performance problems where the user has not been able to pinpoint the problem in circuitry or components; revising checkout and inspection procedure as well as certifying as acceptable completion of installation.

III. FACTOR LEVELS

1. Knowledge Required by the Position FL 1-7, 1250 pts

Knowledge of professional electronics engineering concepts, principles, and techniques applicable to a full range of duties concerned with the design, evaluation, and analysis of various characteristics of electronics circuits, elements, equipment, systems, subsystems and material used in a wide assortment of electronics functions and capabilities. Additionally, a full comprehension of the relationships between assigned and related areas and branches of engineering, such as mechanical and electrical is required in order to provide a full range of engineering support for electronics systems design, assessment, analysis, maintenance and installation activities.

2. Supervisory Controls FL 2-4, 450 pts

Supervisor gives assignments in general terms of objectives and priorities. The engineer receives assignments within his/her subject-matter or functional area without instructions. The engineer determines the nature of the question and issues involved and independently plans and carries out the investigation, analysis and details of the work. Highly unusual or controversial problems are handled in consultation with the supervisor, but in most cases, the employee independently plans and carries out the work. Completed work is reviewed for adequacy in meeting objectives and to ensure conformance with agency policies.

3. Guidelines FL 3-3, 275 pts

Guidelines consist of engineering manuals and publications, agency standards, guides and precedents. The guides are normally applicable but have gaps in specificity and applicability. The engineer is expected to be familiar with the guidelines, be able to interpret them and when necessary make adaptations of them for particular applications. Results are analyzed, and recommendations for changes are made.

4. Complexity FL 4-4, 225 pts

The work involves the application of standard electronics engineering practices to new situations and relating new work situations to precedent ones and the modification or adaptation of standard guidelines to unique situations. The work requires considerable coordination with related engineering fields.

5. Scope and Effect FL 5-3, 150 pts

The purpose of the work is to investigate and analyze any of a variety of problems or conditions and to provide or recommend ways of dealing with them. The engineering determinations affect the design or operation of equipment or policy/program recommendations with regard to economy, efficiency, evaluation, feasibility, and safety or national security implications of the systems involved.

6. Personal Contacts FL 6-3, 60 pts

Contacts are with engineers in the same and other disciplines, projects and systems managers and laboratory and test site personnel, as well as with representatives of other governmental organizations, contractors, manufactures and vendors.

7. Purpose of Contacts FL 7-2, 50 pts

Purpose of contacts is to plan and coordinate work efforts, discuss technical aspects of equipment and resolve problems concerning use, resolve questions on requirements and generally clarify problems and reach agreement on overall plans, procedure and schedules.

8. Physical Demands FL 8-1, 5 pts

Work is normally sedentary, although bending, climbing, and crawling are necessary on some assignments.

9. Work Environment FL 9-1 5 pts

Work is usually performed in an office or laboratory setting.

TOTAL POINTS- 2470

This position is exempt from coverage under the Fair Labor Standards Act.

IV. UNIQUE REQUIREMENTS

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