

# Mission Assurance Engineer: Associate Principal Mission Assurance Engineer

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Defines and monitors mission assurance program specifications and processes to ensure mission success of programs. Performs or assures quality, risk management, safety, reliability and maintainability of program achievements, subcontractors and suppliers in accordance with contractual requirements. Assesses program performance and risks, and determines resources to ensure mission assurance. Work performed includes the following: Proposals, Contract Reviews and Requirements Flow Down, Design Reviews, Business Area Team Representative (PA Program Management), Cost Account and Schedule Management, Customer Liaison, Quality and Reliability Programs, Reliability/Maintainability Analysis/Techniques, FRACAS, Qualification/Reliability Tests, Engineering Change Board, Material Review Board, Support to Suppliers and Data Items.

## **Knowledge**

Applies advanced technical principles, theories and concepts. Contributes to the development of new principles and concepts. Possesses knowledge of advanced technical principles, theories and concepts, related to Quality Management Systems as pertinent to ensure mission success of programs. Understands how to implement and/or measure quality, risk, safety, reliability and cost, in accordance with company and customer requirements. Extensive background provides for creation of detailed quality instructions, procedures, tests and reports. Understands the intricacies and effectively participates in supplier and customer relationships. Broad knowledge of engineering, manufacturing and testing of complex electronic products. Knows how to prepare detailed proposals.

## **Problem Solving**

Works on unusually complex technical problems and provide solutions which are highly innovative and ingenious.

## **Discretion/Latitude**

Works under consultative direction toward predetermined long-range goals and objectives. Assignments are often self-initiated. Determine and pursue courses of action necessary to obtain desired results. Work checked through consultation and agreement with others rather than by formal review of superior.

## **Impact**

Develops advanced technological ideas and guides their development into a final product. Erroneous decisions or recommendations would typically result in failure to achieve critical organizational objectives and affect the image of the organization's technological capability.

## **Liaison**

Serves as organization spokesperson on advanced projects and/or programs. Acts as advisor to management and customers on advanced technical research studies and applications. Continual internal contacts with all other departments. Continual customer contact. Periodic DCMA contact and varying of subcontractor contact.

## **Work Products (Examples may include but are not limited to)**

Quality System Databases & Software Applications; i.e., TIPQA and FRACAS. Microsoft Office Applications. Working knowledge of ISO -9000 and Reliability Engineering including prediction and analyses as required by MIL-STD-785 and MIL-STD-470, design, manufacturing, and testing methods and procedures.

## **Minimum Education and Experience**

14 - 19 years with BS in Electrical Engineering. 12 - 17 years with MS in Electrical Engineering.