

Integrated Electronic Toll Collection System

Design, Development, and Implementation

Professional Classification with job description

Systems Engineer performs computer system analysis, system design, and system programming functions. This professional examines an activity, procedure, method, technique, or business function to determine what must be accomplished and how the necessary operations may best be accomplished electronically.

Toll System Specialist is a Systems Engineer with applied skills in the design, development, and implementation of electronic toll systems.

Toll System Integrator connects toll system components (such as In-Lane computers, treadles, light curtains, manual lane terminals, etc) for online communication in developing an operational Electronic Toll Collection system as per functional requirements.

Networking/Communication Specialist designs, creates, builds, and deploys operational networks for the communication between toll system components, computer databases, and users for the purpose capturing and storing for future accessing and processing.

Programmer transfers the detail design specifications into programming language code and tests the code, following established programming standards, to ensure that it functions as per design and specification.

Configuration Management Specialist is a group leader that manages a project using a structured approach defined by a work plan with tasks, task descriptions, task resources, and timelines for the design, development, and implementation of an operational system. This project manager is the Contractor's contact for the project and is responsible for updating the agency on the progress of the project.

Quality Assurance Specialist performs quality control evaluations of the developing system including those procedures, techniques, and tools applied to all phases of development to ensure the quality of product (software, hardware, components) meet or exceeds predetermined standards and take the proper corrective action if the quality falls below that standard.

Testing Specialist performs commission, system integration and system acceptance testing by executing the system and system components on procedures and data sets, including both valid and invalid activities, in an effort to explore all possible anomalies and causes thereof. This professional executes an accepted comprehensive test plan and verifies all entry and exit criteria.

Violation Processing Specialist is responsible for the management of all out-sourcing violation processing. This includes all activities involved in a full-service backend violation processing system as per functional requirements.