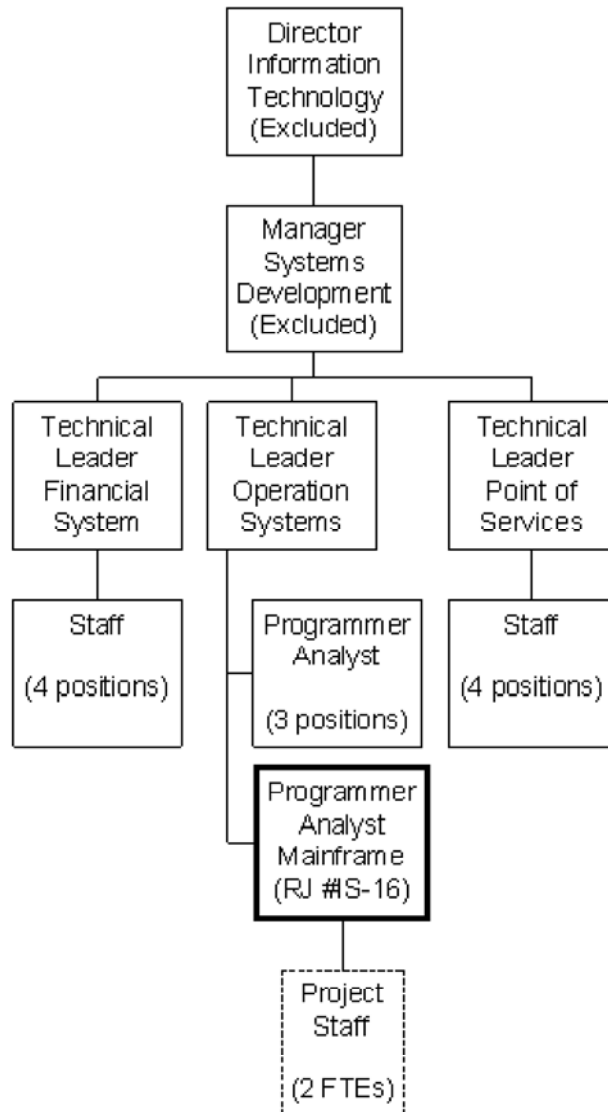|	
Position:	**Reference Job #IS16**
Ministry:	Transportation and Highways
Working Title:	**Programmer Analyst, Mainframe**
Branch:	Information Technology, MVB
Level:	Range 24
Location:	Victoria
NOC Code:	2162

PRIMARY FUNCTION

To develop, maintain and enhance new or existing Motor Vehicle Branch (MVB) mainframe systems applications used by internal and external users for provincial projects, such as the Traffic Safety Initiatives (TSI).

JOB DUTIES AND TASKS

1. Develop, maintain and enhance MVB mainframe applications, such as information system applications for the provincial Drivers License which affects ICBC, private insurance agencies and all licensed drivers in the province
    a. designs and implements new or enhanced application modules for applications to optimize efficiency, maintenance and ease of use
    b. designs, constructs and implements enhancements and new requirements
    c. works within a MVS (mainframe) and/or Unix (LAN-client server) environment and uses computer language such as DB2, PL/1, C
    d. analyzes and determines best method of modifying or integrating enhancements to existing applications
    e. develops and maintains modules of province-wide applications such as photo radar
    f. prepares detailed specifications for projects
    g. documents completed applications and enhancements, and prepares user manuals
    h. provides ongoing application support including problem resolution and emergency maintenance
    i. analyzes and implements systems changes
    j. responds to production emergencies, determines solutions or work-arounds
    k. determines when and how failed production jobs are to be re-started, and advises central systems agency when to restart jobs
2. Liaises with users in defining design specifications and test requirements
    a. consults with and advises users on operational problems, and assesses project risk
    b. determines and documents application requirements which meet user business needs
    c. provides users with alternative design solutions and cost benefit analysis and estimates
    d. facilitates solutions with clients/users to gain consensus on "best" technical solution
    e. identifies and supports information technology requirements of special projects, such as TSI
    f. guides users and testers during test and implementation phases of development
    g. works with users to determine workable resolutions to software errors and deficiencies and ensure compliance to systems standards and specifications

    h.   works with central systems agency staff to facilitate consensus on changes, timelines, costs and specification for new or enhanced application module

3. Guides the work of junior staff and contractors on project basis

    a.   guides programmer/analysts or contractors in use of MVB standards

    b.   schedules and monitors the work of staff and contractors

    c.   trains staff and contractors in MVB software development techniques

    d.   leads staff (1+-3 FTEs) and contractors on a project basis

    e.   verifies the completion of contract work where results are defined in general terms

4. Performs other related duties

    a.   participates in planning software maintenance releases

    b.   evaluates hardware and software tools

    c.   contributes to technical standards development

    d.   supports test environment and Help Desk services

    e.   supports online and batch production mainframe systems

FACTOR	REASON FOR CLASSIFICATION	DEGREE	POINTS
1	**JOB KNOWLEDGE** Understand the theory of computer science to develop, enhance and maintain mainframe applications, such as for the provincial Drivers Licence, for MVB internal/external users; determine user business requirements; translate business requirements into technical specifications; implement enhancements and new requirements; develop systems documentation and guide the work of project team.	H	280
2	**MENTAL DEMANDS** Judgement to modify application development and enhancement methods in working with business requirements to analyze and design new application modules and enhancements; provide ongoing application support including emergency maintenance; determine and resolve application software problems; develop systems documentation and coordinate programming tasks with project team.	G	200
3	**INTERPERSONAL COMMUNICATIONS SKILL** Persuasion required to use basic negotiating skills to facilitate solutions with clients/users to gain consensus on the "best" technical solution.	D	45
4	**PHYSICAL COORDINATION AND DEXTERITY** Moderate coordination and dexterity required to use computer keyboard and mouse to program with requirement for some speed to meet deadlines.	C	15
5	**RESPONSIBILITY FOR WORK ASSIGNMENTS** Guided by general ministry policies, guidelines and technical standards, plan, design, construct and implement new modules and enhancements to MVB mainframe applications such as for the provincial Drivers License; provide ongoing application support and problem resolution and guide project team involved in programming.	F	160
6	**RESPONSIBILITY FOR FINANCIAL RESOURCES** Significant financial responsibility to verify contract work for release of payment and satisfactory performance where results are defined in terms of a general statement of requirements.	E	33

FACTOR	REASON FOR CLASSIFICATION	DEGREE	POINTS
7	**RESPONSIBILITY FOR PHYSICAL ASSETS/INFORMATION** Considerable responsibility to develop new modules, or to enhance and maintain MVB mainframe applications.	E	33
8	**RESPONSIBILITY FOR HUMAN RESOURCES** Responsibility to assign, monitor and review work of project team members (1+-3 FTEs).	CD	14
9	**RESPONSIBILITY FOR WELL BEING/SAFETY OF OTHERS** Responsibility for own well-being and safety in a low risk environment.	A	5
10	**SENSORY EFFORT/MULTIPLE DEMANDS** Focused attention to detail to frequently program, edit and compile code.	C	12
11	**PHYSICAL EFFORT** Moderate physical effort to frequently view computer screens and printed material.	C	12
12	**SURROUNDINGS** Exposure to office setting with minimal disagreeable elements.	A	2
13	**HAZARDS** Limited exposure to hazards from frequent keyboarding.	B	4

Total Points: 815

Level: Range 24