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#### Abstract

The Canadian Forces Conditions of Service Ouestionnaire (CFCSQ;Oakes, 1991) captures important information regarding the impact of policies, programs and service support on the well being of Canadian Forces members. The purpose of the CFCSQ is to obtain information that will provide senior military executives with a reliable profile of personnel attitudes and perceptions towards those conditions of service which might serve as sources of dissatisfaction with military life. Specifically, the CFCSQ captures information on compensation and benefits policies (pay, promotion, education and training, etc.), overall job satisfaction, current employment as well as working conditions(i.e., leadership, peer relationships) and intentions to stay or leave the CF. The CFCSQ was based on Mobley, Griffeth, Hand and Meglino's (1979) Expanded Turnover Process model. The CFCSQ was administered to 3275 officers and non-commissioned members serving in the CF in June 1993. This study, using that data set, 1) examined how well the Mobley et al model fit the CFCSQ data; 2) examined the factor structure of the different scales embedded in the CFCSQ and, 3) determined if the policies and procedures measured by the CFCSQ, had a differential impact on the turnover behavior of operational members of the Airforce, Army and Navy.

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LISREL analysis suggested that the CFCSQ data could be explained in the context of the Mobley et al (1979) model, although the fit was not the best that could be obtained. When LISREL analysis was conducted using psychometrically improved versions of the scales included in the CFCSQ, a better fit occured. Distinctive Environmental Uniform (DEU) was not an appropriate criterion on which to measure differences in satisfaction and turnover among Canadian Forces (CF) personnel. Military occupations, grouped as either operational or support was a better measure of differential rates of satisfaction and turnover. These findings suggest that the current CFCSQ requires revision so that concerns about consitions of service within each unique sub-culture of the CF can be identified. The inclusion of culture specific questions, measures of organizational comittment and other general recommendations are offered as a means to achieve this aim.

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#### INTRODUCTION

Organizational behaviour is influenced by the interactions between the values of the organization and the characteristics of the individuals employed by it. Positive interactions between organizational and employee values have been associated with increased employee satisfaction, increased organizational commitment, higher productivity, and lower levels of attrition and less absenteeism. Conversely, negative interactions have been associated with low satisfaction, low commitment, low productivity, and increased absenteeism and attrition (Roberts, Hulin, & Rousseau, 1978; Schneider, 1983; Schein, 1985; Judge & Hulin, 1993; Hatch, 1993).

Organizational satisfiers or dissatisfiers may affect the organization's "bottom-line" by influencing productivity and profitability. Therefore, many organizations throughout the world have become more concerned with the effects of working conditions and quality of work-life issues. This has renewed interest in philosophies such as Total Quality Management, Quality of Work Life, Just-in-Time techniques, and more concern for the attitudes of employees. Many military institutions throughout the world (e.g., Britain, Australia, United States and Canada)have developed survey instruments and methods to assess worker concerns. The Canadian Forces (CF) is currently addressing many issues that affect its workforce, including issues of attrition, harassment, sexual orientation as well as other topics that affect conditions of service.

The Canadian Forces Conditions of Service Ouestionnaire (CFCSQ; Oakes, 1991) was developed in response to a 1990 Auditor General Report which cited the need to evaluate the effectiveness of conditions of service in the CF. The intent of the CFCSO was to measure he attitudes and perceptions of CF members about quality of work life issues. The CFCSQ was adapted from Mobley, Griffeth, Hand and Meglino's (1979) model of turnover behaviour (Figure 1). It proposes that the CF's policies and procedures related to conditions of service influenced individual service member's perceptions of the personal impact of each condition of service. In turn, this cognitive evaluation influenced the perception of the quality of working life and the degree of satisfaction or dissat'sfaction with present employment and the CF. In short, the policies and procedures influenced an individual's sense of well being and their intention to stay in or leave the CF (Oakes, 1991). Oakes (1991) model, also proposed that policies and procedures could directly influence stay or leave intentions.



# Eigure 1. Canadian Forces Conditions of Service Questionnaire Paradigm (Oakes, 1991)

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. E The Conditions of Service Questionnaire is administered on a periodic basis throughout the CF (the next administration is scheduled for Spring '96). Information gained from this survey is used by senior executive military personnel to formulate or amend policy items that affect member satisfaction. To date, there has been only a preliminary, descriptive analysis of a few variables measured by the CFCSQ. The structure and psychometric properties of the CFCSQ have not been analyzed through either exploratory or confirmatory factor analyses. This is required to assure policy makers that the CFCSQ items validly represent the constructs that it purports to measure (e.g., satisfaction) (Oakes, 1991).

The Canadian Forces as an organization is subdivided into three distinct elements: Army, Navy and Airforce. Each of these elements is essentially a subculture of the CF which has distinct social principles, philosophies, goals and standards. From a cultural perspective, differing value systems provide insight into organizational climate (Schein, 1985; Hatch, 1994). What is a source of satisfaction to personnel serving in the Navy may not necessarily be a source of satisfaction to those in the Airforce or Army. To date, differential rates of job and organizational satisfaction have been examined (e.g., through multivariate analyses of variance) by rank, gender, environmental

uniform, first official language, marital status and education level. No significant differences were found to exist using these criteria(Oakes, 1994). Many of these criteria ignore unique cultural differences that exist between the three elements of the CF (e.g., pride in regimental affiliation, Naval traditions). As such, it is possible that true concerns about conditions of service are not being addressed or made known to senior level policy makers because results are reported according to "environmental uniform" as opposed to "operational component".

Environmental uniform is the particular uniform which identifies the CF member as belonging to the Airforce (light blue uniform), Army (brown uniform) or Navy (Black and/or white uniform). Operational component refers to those members, who may be wearing any of the above three uniforms but are directly employed in a unit (e.g., ship, aircraft, or regiment) which is routinely assigned to perform specific tasks. For example, military members who would, as part of their normal job, be employed aboard a naval ship, an infantry unit or aircraft squadron as part of a United Nations, fishery patrol, or any other designated mission are classified as "operational". Those personnel who do not work in this capacity are defined as "support personnel". In this regard, differential rates of job satisfaction and turnover between operational components of the Army, Navy

and Airforce have not been analysed. Such an analysis would provide important information on the need for more culturally specific instruments for each element.

The primary purpose of this study was 1) to confirm how well the Mobley et al (1979) model fits the data generated by the CFCSQ; 2) to confirm the structure and psychometric properties of the CFCSQ and, 3) to determine if the policies and procedures, as measured by the CFCSQ, have a differential impact on the turnover behavior of operational members of the Airforce, Army and Navy.

Linear structural equation modelling can be used to test the model underlying the CFCSQ and to examine the influence that policies and procedures related to pay, promotion, working relations, and family-life predict job satisfaction and turnover. Testing the fit of the underlying model, as well as alternatives, to the data obtained from the CFCSQ will suggest improvements that can be made in questionnaire content and ultimately, the information obtained through it.

#### Job and Organizational Satisfaction

Work satisfaction is one of the more important variables that has been related to both organizational behaviour and quality of work life. Early studies (e.g., Locke, 1976) related job satisfaction to specific working conditions such as pay rates, promotions, rest periods and increased variety of work. Later research emphasized the human relations aspects of jobs as sources of satisfaction (e.g., Parsons, 1974) and job content factors (e.g., Hertzberg, 1966) as true motivators of performance and satisfaction. Extension of these studies to blue collar workers suggested that "perceived intrinsic job characteristics" also has an impact on the level of job satisfaction (Warr, Cook & Wall, 1979). The diversity of findings with respect to job satisfaction led Oskamp (1984) to comment that "... the causes and effects of job satisfaction must be studied anew with better research designs..." However, the study of each of these satisfaction variables individually has laid the foundation upon which more complex models of job satisfaction can be examined.

#### Concentual Models of Job Satisfaction & Turnover

#### Compensation and Benefits

Collectively, rewards such as pay, promotion prospects, vacation, medical and dental benefits and other special gratuities or allowances are thought to affect job satisfaction. Reward systems are a fundamental aspect of organizational culture because of their impact on motivation, satisfaction and continued participation within the organization (Mobley, 1982; Mobley, Hand, Meglino & Griffeth, 1979). Reward systems may have an effect on those outside the culture through their use to attract newcomers into the organization. They also affect the retention of current employees; those who do not see the reward system as equitable may leave. Better performers may feel they are unfairly rewarded compared to those they believe to be 'known' poor performers. As a result, the employee may either quit the organization, or remain in the organization to express dissatisfaction by complaining, requesting special transfers and promoting mistrust within the The potential danger in such situations is organization. that the expressed mistrust may proliferate throughout the organization and poison a once positive environment.

Although some of the reward systems within the CF are pay/promotion based, several other formal and informal rewards may influence member satisfaction. Several reward

systems, however, are grounded in expectancy theory. Expectancy theory involves three components (Lawler & Jenkins, 1981): 1) Performance-outcome expectancy relations hypothesizes that individuals believe or expect that if they behave in a certain way, they will receive certain things. In military terms, if a sailor goes to sea or a soldier goes on a combat mission for an extended period of time under unusually harsh circumstances (e.g. Peacekeeping, War) the organization, for example, would be expected to provide amenities for the family to help cope with the sailors' absence. 2) Outcome attractiveness - individuals will perform better if they value the outcome (e.g., promotion) that the extra work is meant to achieve; and 3) Effortperformance expectancy - an individual's estimate of the likelihood of achieving the desired outcome. Each of the these components affect individual motivation and job or organizational satisfaction.

#### Satisfaction with Pay and Promotion

There is little evidence supporting any relationship between pay satisfaction and turnover (Hellreigal & White, 1979; Newman, 1974; Koch & Steers, 1978). Rather, the Pay satisfaction-turnover relationship is mediated by job/organizational satisfaction and commitment. Rewards such as pay, promotion, and hours of work are highly and directly correlated with organizational satisfaction

(r=.45), moderately and indirectly correlated with turnover behaviour (r=-.19) and not related to job effort (Oliver, 1990). Summers and Hendrix (1991) explored specific structural linkages, through path analysis, between pay equity, pay satisfaction, job satisfaction and organizational commitment and turnover. In part, they found a bidirectional relationship between pay satisfaction and job satisfaction. Of the two, pay satisfaction was a better predictor of job satisfaction (r=.56) than job satisfaction was of pay (r=.15). There was no relationship between pay satisfaction and any other outcome variable (e.g. turnover). Both studies, Oliver's and Summers and Hendrix's, demonstrated that job satisfaction and organizational satisfaction are two different latent constructs, each with distinct exogenous variables.

#### Perceived Organizational Support

Despite the large amount of research on organizational committment, only recently has interest shifted to measuring the support organizations provide to their employees. Eisenberger, Huntington, Hutchinson and Sowa (1986)approached the duality of organizational commitment from a social exchange perspective. They suggested that employees perceptions of the organization's commitment to them (referred to as Perceived Organization Support(POS)) is based on their global view about the degree to which the

organization values their contribution and cares about their well-being. POS, in turn, may affect the employee's commitment to the organization.

Organizations demonstrate their support for employees through the encouragement and facilitation of individual work values. Knoop (1994) asked 187 first-line supervisors in a large manufacturing firm to rank the importance and achievement of 16 work values (e.g., Pride in Organization, Status, Security, Working hours, Recognition,) in relation to job satisfaction. Work values accounted for as much as 63% of the variance in job satisfaction and 35% of the variance in overall satisfaction (organizational). Similiarly, focus group discussions with approximately 200 military personnel in the CF identified values and concerns which they believed affected their work values. These values and concerns are illustrated in Tables 1-3 and served as a primary source for the CFCSQ (Oakes, 1992).

#### Table 1

#### **Global Concerns**

LeadershipDiscipline and RespectMilitary Pride (Ethos)CommunicationLeadership versus ManagementCareer ManagementPostingsPerformance Evaluation Reports

#### Table 2

#### Specific Concerns

Pay Leave Pension Specialist Pay Incentive Pay Accommodation Assistance Allowance Clothing Upkeep Allowance Married Service Couples

#### Table 3

#### **Personnel Support Services**

Military HousingMessesMedical servicesPhysical Fitness TrainingCanexUniformsFamily Resource CentresEducation & Training Benefits

Source: Oakes, L.J. (1992) The Development Of The Canadian Forces Conditions Of Service Questionnaire. Willowdale, ON: CFPARU

#### Work-Family Issues

Organizations also demonstrate their support for employees by recognizing the possibility of work-family conflict. Military focus groups raised work-family concerns such as daycare in Family Resource centres or adequacy of military housing (Table 3). Work-family conflicts are a major concern for many organizations because of significant structural and functional changes to the 'traditional family'. Quinn and Staines (1979) were among the first to show that many married couples with children experienced stress due to work-family conflicts. In addition to producing stress, work-family conflict may lead to job dissatisfaction (Greenhaus & Parasuraman, 1987; Bacharach, Bamberger & Conley, 1991; Bedeian et al., 1988).

Using path analysis, Thomas and Ganster (1995) found that supervisor support affected job satisfaction directly as well as indirectly through the amount of control employees perceived themselves to have over their situation and through work-family conflict itself. Supportive policies (e.g.,flexible work schedules, time-off) did not predict job satisfaction; however, they did predict the presence of somatic complaints and depression.

Unlike other large organizations, the Canadian Forces is a self-contained unit which meets as many of the needs of its employees as possible. One rationale for operating in this way is that military installations often operate in areas and under conditions in which normal supportive

functions (e.g., medical, dental services) are not available. Military members often bring families with them on postings or deployments, requiring other support services (e.g., Base Exchanges). Employees who believe the organization strongly supports them are more likely to feel an obligation to repay the organization in terms of positive affective commitment and work-related behaviours, which are aspects of satisfaction.

#### Satisfaction with Work Relations

#### Satisfaction with Supervision

Oakes'(1991) focus groups identified leadership and managerial concerns as having an impact on conditions of service (See Table 1). These concerns are consistent with past research which suggests a negative relationship between satisfaction with supervision and turnover (Graen & Ginsburgh, 1977; Ilgen & Dugoni, 1978). This negative relationship is not definitive because the leadership variable in most of this research had more to do with aspects of the leader-member exchange rather than with satisfaction with supervision (Mobley, Hand, Meglino and Griffeth, 1979). More recent research supports the view that leadership style has a strong and positive effect on supervisor satisfaction (Putti & Tong, 1992). Putti and Tong found that differences in leadership style significantly accounted for subordinate satisfaction with supervision among employees of three distinct civil service agencies (e.g., nurses, police and engineers).

#### Satisfaction with Peers

Peer group relations do not appear to be related to turnover, (Mobley et al., 1979). Individual differences in need for affiliation and task interaction appear to mediate the peer relation-turnover relationship. As well, there are inherent methodological problems in measuring group processes.

#### Satisfaction with Subordinates

Superiors, or leaders, are also employees of the organization. One system unique to them which could influence their job satisfaction is their satisfaction with the quality of the people they lead. There is little research on this type of satisfaction. Leader-Member exchange (LMX) theory proposes that all superiors form varying social exchange relationships with different subordinates (Graen & Cashman, 1975). Subordinates who the leader believes to be of higher quality receive more benefits, higher status, and greater influence than those subordinates perceived to be of lower quality. In exchange, the leaders obtain hard-working subordinates who are dedicated to workgroup objectives. Highly regarded subordinates expressed greater satisfaction with their superior and with the superior's effectiveness (Deluga & Perry, 1991). This supports the view that leaders' job satisfaction may be directly influenced by the quality of subordinates under their charge.

#### Satisfaction with Human Rights Legislation

Reports of harassment (e.g., sexual, personal), and discrimination (e.g., due to race, religion) in the work environm t appear to be increasing (Canadian Human Rights Commission Report, 1983). Such instances are in violation of the Canadian Human Rights Act (Canadian Human Rights Commission Report, 1983 No. HR21-14/1983) which states:

"It is the responsibility of the employer to as ure to the employee a workplace free of discriminatory practises, including harassment, and to a client or customer service free of harassment".

Consistent with this ruling, the Canadian Forces has implemented policies and guidelines with the purpose of ensuring an harassment free workplace. Despite the existance of these policies and procedures, which have enforceable consequences, as many as 26% of the CF population reported that they experienced some form of harassment (Hansen, 1992). There were no differences in the number of harassing incidents reported by males and females. However, there was a mitigating problem with the study in that a significant portion of the sample reported that they did not have a clear understanding of the definition of harassment.

Clearly then, satisfaction with the effectiveness of policies designed to limit harassment may predict job satisfaction and/or organizational commitment. Minority managers who experienced more positive treatment in their organization, and who were employed in organizations that were more accepting of minorities, were more satisfied, committed and integrated with the organization (Burke, 1991). Minority managers who held higher status positions were more positive than those in lower status management positions. When organizations such as the CF value diversity, minority workers are motivated to improve their performance and skills; relationships become more harmonious and conducive to effective problem solving and decision making.

#### Satisfaction with Education & Training

In terms of the current literature, the CF is a culture which promotes a "continuous-learning work environment" (Tracey, Tannenbaum & Kavanagh, 1995; Dubin, 1990; Rosow & Zager, 1988). Dubin (1990) proposed four characteristics which are indicative of such an environment. First, such an

environment is one in which knowledge and skill acquistion are essential responsibilties of everyone's job. Further, job assignments are challenging and meant to promote personal development. Second, knowledge and skill acquistion are supported by social interaction and work relationships. In this way, organizational members gain an understanding of each others tasks and responsibilities and the interrelationships among jobs. This fosters cooperation and cohesion among members so that work relationships also become institutionalized. Third, formal systems that reinforce achievement and provide opportunities for personal development are entrenched (e.g., Military post-graduate training programs) . Extrinsic and intrinsic rewards are also provided to those who effectively use the newly acquired job knowledge (e.g., advanced promotion and/or positions). Finally, there is a shared expectation that all organizational members strive for high levels of performance and try to be the best at what they do (e.g., U.N. Peacekeeping).

Clearly then, effective training is directly related to positive job attitudes (Louis, Posner,& Powell, 1983; Saks, 1995). Consistent with the characteristics of a "continuous-learning work environment", training appears to be related to job satisfaction, organizational commitment, and turnover intentions (Saks, 1995). Given these results,

providing employees with feedback on the efficacy of training programs should predict job satisfaction and turnover intentions.

#### Satisfaction with Physical Work Conditions

Physical work conditions influence job satisfaction (Ivancevich & Matteson, 1980; Quick & Quick, 1984; Burke, 1990). Lack of privacy, unavailability of equipment, poor air quality, and lack of working space generally lead to a decrease in job satisfaction (Cohen, 1980; Burke, 1990).

#### The Impact of Organizational Culture on Job Satisfaction

Reward systems are one feature of an organization that contribute to its overall culture (Whyte,1955). They influence the perception of organizations as having a humanresource oriented, entrepreneurial, or an innovative culture. The working climate of the organization also influences this perception. Organizational climate and, ultimately, culture are represented by the shared perception that people attach to features of the work setting (e.g., the level of authoritarianism or participation in the organization). The climate of the organization may al.o be thought of as a reward system because it attracts individuals with similar values and beliefs to the

#### organization.

Individuals may be attracted to the Army, Navy and Airforce based on stereotypes they have about those organizations. For instance, recruits may join the Army because they have a high affinity for camping, hiking, wilderness survival and see Army life as satisfying these interests. Similiarly, people may join the Navy because they have an interest in sailing and travel. In fact, recruiting officers use applicant interests such as those to select individuals for employment within the CF. Interests, as well as skills, are matched with the environmental job as part of giving the applicant a realistic preview of the job in the CF.

The "theory of congruence" (Aronoff & Wilson, 1985) proposes that it is necessary to match the characteristics of the person and the situation in order to provide the most productive work environment (i.e., culture). In support of this theory, satisfaction with work was explained by a joint, additive function of organizational climates and personal orientations (Osteroff, 1993). That is, congruent personal work attitudes and organizational philosophy (i.e., culture) led to greater job and organizational satisfaction. In addition the largest explained relationships, independent of climate, were found for personal orientations (i.e., value system) between commitment and turnover (Osteroff, 1993). In short, the value an employee attaches to an organization mediates the level of commitment which in turn affects turnover intention. Thus, an organizations' work environment and cultural climate may affect turnover behaviour. Therefore, it is important to examine the antecedents of turnover and satisfaction with respect to an organization's culture. In the current case, culture is directly related to operational environment. Differences in turnover and satisfaction that are related to operational element would support the arguement for revising the CFCSQ to take into account different organizational climates and cultural concerns.

#### Major Conceptual Models of Job Satisfaction & Turnover

#### Mobley's Expanded Model of Employee Turnover Process

Mobley et al.'s (1979) highly complex model of the employee turnover process attempted to account for all the factors which influence job satisfaction and turnover behaviour (Figure 2). Mobley et al., believed the model offered insight into job satisfaction and did not expect that it could be evaluated in any one study. This model was used to the develop the CFCSQ. The following sections describe certain aspects of Mobley et al.'s model, as well as Oakes' (1991) adaptation. Specifically, individual



Figure 2. Mobley's Expanded Turnover Process Model. Source: Mobley, W.H. (1982).

differences, organizational values and praticises, jobrelated perceptions and expectations about one's employment are discussed in the context of job satisfaction and turnover.

#### Individual Differences

Satisfaction, whether in life or on the job, is related to individual differences (Figure 2) in values, beliefs and attitudes (Mobley, 1982). For some individuals, a highly repetitive job, irregular work hours, extended absences from family-life, and a cohesive work environment may be attractive. For other individuals, these same factors may be less desirable. Accordingly, trying to satisfy employees through the introduction of uniform policies, practises and procedures which treat the workforce as a homogenous group may be an exercise in futility. Such policies rarely recognize or respond to individual differences in values.

#### Employee Perceptions

Job satisfaction is also related to employee perceptions (Figure 2). It is a function of what is perceived relative to the employees's values. Employees who believe they are victims of discrimination by their superiors may also believe the organization is unfair to them depsite the existance of company policies forbidding discrimination or which provide a procedural mechanism to grieve the discrimination. This would not be a case of the organization tolerating 'discrimination' but the employees being unaware of the policies or their rights and knowing how to address the issue.

#### Job and Organizational Values

In Mobley's model, job satisfaction is viewed as a multi-faceted, composite which is governed by the perceived values provided by the job/organization (Figure 2). These values may include high pay, good working conditions, job content or any other perceived reward or incentive. Mobley's model also allows for these incentives to be both extrinsive or intrinsic. As such, an occupation which is perceived as low paying may still attract job applicants because it satisfies other important values (e.g., it may offer travel to foreign countries or highly challenging work).

#### **Employee Expectations**

The model also proposes that an employee's expectations (Figure 2) about the job influences their perception of satisfaction or dissatisfaction. For example, members of the Canadian Forces start out in very low ranking positions but expect advancement or promotion. The CF member may endure tenure in a position which is dissatisfying for a fixed period of service with the expectation of transfer to a new occupation or promotion to a higher rank. If these expectations are not met, the member is likely to become dissatisfied with the organization.

#### Structural Models Relating Job Satisfaction and other Precursors to Voluntary Turnover

In addition to the Mobley (1979) model presented in Figure 2, other models have influenced research on voluntary employee turnover: Mobley, 1977; Mobley, Griffeth, Hand & Meglino, 1979; Mowday, Porter & Steers, 1982; Price, 1975, 1977; Steers & Mowday, 1981. There are similiarites and differences in these models. Lance (1991), integrated these related models into one involving job satisfaction, organizational commitment and other precursors to voluntary turnover. Lance (1991) proceeded to test this new model using structural equation modelling. His final model is presented in Figure 3. His analysis suggested a nonrecursive relationship between job satisfaction and organizational (affective) commitment. Satisfaction with employment predicted commitment (r=.50) more so than did the relationship from commitment to satisfaction with employment (r=.085). Both job satisfaction and affective commitment partially mediated the effects of job perceptions upon turnover intentions. Some of Lance's hypothesized precursors to voluntary turnover included role stress, leader facilitation and support (leadership), co-worker


Figure 3. Lance's Structural Model of Precursors to Voluntary Turnover. Source: Lance,C.(1991) Evaluation of a Structural Model Relating Job Satisfaction, Organizational Commitment, and Precursors to Voluntary Turnover. <u>Multivariate Behavioral Research</u> 26, 137-162

integration (peer groups relations), organizational dependability (i.e., the extent to which the organization supports workers), job involvement and perceived availability of alternatives. There was empirical support for some of the hypothesized relationships; however, the findings were limited due to method bias and lack of cross validation. Lance's integrative approach is important from a theoretical perspective; specifically, it can be used as a yardstick with which to compare a causal model based on the CFCSQ data.

## Purpose and Hypotheses of Present Study

#### Purpose

The review and examination of the structural linkages and antecedants of job satisfaction and employee turnover provide the necessary background for analysing the data captured by the CFCSQ. Analysis of the most salient factors identified by the CFCSQ may reveal antecedents of job satisfaction within the Canadian Forces. This information will assure senior policy makers that the questions being asked in the CFCSQ measure what they purport to measure, as well as providing them with a "thermometer" by which to gauge the overall level of satisfaction of the CF. This study examines variables which may affect job and organizational satisfaction and turnover in the CF:

- a. Career Management
- b. Working Conditions (Operational and Static)
- c. Compensation and Benefits
- d. Human Charter of Rights
- e. Education and Training
- f. Present Employment
- g. Support Services
- h. Working Relationships (leadership, peer relations, subordinate relations)

- i. Overall (CF) satisfaction
- j. Effects of CF Career on Family
- k. Career Intentions (Stay/leave)

The present study has three purposes. The first is to compare and test how well Oakes' (1991) model (Figure 1), adapted from Mobley (.979), fits the CFCSQ data in relation to job satisfaction and turnover. The second is to examine the structure and psychometric properties of the CFCSQ through exploratory factor analysis and, third, to examine the rates of job satisfaction between members of the Airforce, Army and Naval environments. Based on the foregoing, it is hypothesized that:

H1. Oakes model will provide a good fit to the data collected through the CFCSQ.

H2. Psychometrically improved CFCSQ scales will provide a better fit to the data.

H3. Consistent with Schein's theory of organizational culture, the uniqueness of the Army, Navy and Airforce environments will lead to differential rates of turnover intentions and perceived differences in job and organizational satisfaction.

### Study 1

### Introduction

Study I used structural equation modeling to determine whether the model represented in Figure 4 fit the data provided by the CFCSQ. Following Oakes'(1991) explanation (Figure 1) for the development of the CFCSQ, the model in Figure 4 is an "X-Y or measurement-structural equation model" (Joreskog and Sorbom, 1984).

The model represented in Figure 4 presents three latent variables: policies and procedures, job and organizational satisfaction and turnover intentions. Policies and procedures has seven indicators (career management, operational work conditions, compensation and benefits, human rights legislation issues, static work conditions, support services and education and training). Job and organizational satisfaction has four indicators (work relations, job satisfaction, overall satisfaction, and effect of CF on family life). Turnover intentions has one indicator (career intentions). The unidirectional arrows from the latent variables to their observed variables indicates direction of effect. Effect is expressed as a standardized beta weight which is analogous to beta weights in regression equations.



# Figure 4: Structural Representation of Oakes'(1991) CFCSQ Development Model.

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The model presented in Figure 4 proposes several causal relationships. First, there are direct effects from policies and procedures to job and organizational satisfaction and to turnover intentions. Second, there is a direct effect from job and organizational satisfaction to turnover intention. Third, there is an indirect effect from policies and procedures to turnover intentions that is mediated by job and organizational satisfaction. The coefficent of effect of the latent variable, turnover intentions, on its indicator, career intentions, as well as the error of the indicator is fixed because it is a single indicator.

The original data and variables reported by Oakes (1994) were analyzed through LISREL procedures. Since the purpose of this study was to assess the fit of the model to the obtained data, the variables, as represented by Oakes were used in the first analysis. Because many of the variables had not been examined to determine their psychometric properties, the Oakes (1991) model was <u>not</u> expected to provide the most parsimonious fit.

## Method

All data reported in this study were previously collected by the Canadian Forces Personnel Applied Research Unit (CFPARU) as part of a longitudinal examination of the policies and procedures within the Canadian Forces. The data were not previously analyzed except for summary descriptive statistics (Oakes, 1994).

#### Data Base/Participants

CF members who completed the CFCSQ were selected by the Directorate of Personnel Management Information Systems (PMIS). PMIS generated a random sample (N=4295) from the 77,783 personnel serving in the CF at the time of survey. The sample, and its respondents, was representative of serving CF members in terms of gender and rank - two variables of particular concern (Tables 4 and 5). Completed surveys were returned by 75.3% (N=3275) of the population surveyed.

Gender	Survey Sample <u>N</u>	Survey Sample (%)	Respondents <u>N</u>	Respondents (%)	CF Population (%)
Male	3715	86.5	2765	85.5	89.3
Female	580	13.5	470	14.5	10.7
Total	4295	100.0	3275	100.0	100.0

 Table 4

 Representativeness of Respondents to the Survey Sample by Gender

 Table 5

 Representativeness of Respondents to the Survey Sample by Rank

Rank	Survey Sample <u>N</u>	Survey Sample (%)	Respondents <u>N</u>	Respondents (%)	CF Population (%)
Private- Master Cpl	2321	54.0	1744	53.9	54.9
Sgt - CWO	945	22.0	743	22.9	22.6
OCdt - Capt	661	15.4	506	15.7	15.8
Maj - General	368	8.6	242	7,5	8.6
Total	4295	100.0	3275	100.0	100.0

Source: Oakes, L.J. (1994) Personnel Attitudes and Perceptions Toward Conditions of Service in the Canadian Forces: 1993 Survey. Willowdale, ON: CFPARU

#### Procedure

The CFCSQ data were collected in June 1993. Questionnaires were sent to Base Personnel Selection Officers (BPSOS), together with detailed instructions for its administration and a list of participants. The CFCSQ was administered within controlled classroom environments to 3235 CF personnel. A total of 1,060 surveys were not completed due to operational requirements (i.e., duty) or member unavailability (e.g., leave, posted to another unit, or release from the CF). Completed questionnaires were forwarded in sealed envelopes to CFPARU. Once received, all CFCSQ machine readable data were encoded and stored on the main computer for analysis.

#### Measures

The CFCSQ (see Appendix C; Oakes, 1991) was used to collect the data for this study and was based on Mobley's Expanded Turnover Process Model (1979). It provides information about policies and procedures related to conditions of service based on servicemembers' perceptions of the quality of working life within the Canadian Forces. The scales used in the CFCSQ are described in detail elsewhere (Oakes, 1991, 1994). However, none of these 'scales' were factor analyzed to examine their validity as measures of the constructs they were intended to measure.

The following section describes the different scales included in the CFCSQ and their reliabilties as reported by Oakes (1994). Unless otherwise noted, all items were measured with five-point likert-type scales ranging from A-"Very Satisfied" to E-"Very Dissatisfied".

The CFCSQ contains five sections which are : <u>Section 1</u> - Overall Satisfaction; <u>Section 2</u> - Satisfaction with Specific CF Policies; <u>Section 3</u> - Satisfaction with Employment; <u>Section 4</u> - Career Intentions; and, Section 5 - Biographical Information.

<u>Section 1 - Overall Satisfaction</u> - measures levels of satisfaction with current employment, trade/occupation, career and the CF organization as a whole. The intention of the questions in this section was to provide a measure of the general level of satisfaction with various aspects of military life. This section contains items developed through focus group discussions with 200 subject matter experts and senior executive military personnel. These discussions identified important variables affecting military service. The questions in this section assess the CF member's overall satisfaction by examining job related perceptions and individual values. This scale included questions such as "Considering your CF career as a whole, how satisfied are you with the challenge it provides?" The 13 items in this scale had a Cronbach's  $\alpha$  of .85 (Oakes, 1994). This scale had a low correlation (r=.11) with career/turnover intentions (Oakes, 1994).

Section 2 - Satisfaction with Specific CF Policies measures the influence of relevant policies and procedures on organizational satisfaction. These items, which are represented by six separate indices, measure satisfaction with compensation and benefits (e.g., How satisfied are you with incentive pay, and annual salary?), career management (e.g., How satisfied are you with the promotion system in regard to fairness and effectiveness?), support services (e.g., How satisfied are you with medical, dental benefit services and recreational facilities?), education and training (e.g., How satisfied are you with MOC training?), charter of rights issues (e.g., How satisfied are you with the CF policy on personal discrimination?) and effects of military career on family life (e.g., In general how much has your spousal/partner relationship been affected by your military career?). This section contains 79 questions which were subdivided into the following groups:

Compensation & Benefits Scale - contains 21 items that

address satisfaction with salary, pay incentives and other benefits, such as gratuities. It had a reported of internal consistency of  $\alpha$ =.87. This scale correlated significantly with organizational satisfaction (r=.51, p<.01; Oakes, 1994).

<u>Career Management Scale</u> - contains 10 items with a reported Cronbach's  $\alpha$  of .86. This scale also had a high correlation with organizational satisfaction (r=.58, p<.01; Oakes, 1994).

<u>Support Services Scale</u> - contains 23 questions that deal with the unique services that the CF provides its members (e.g., dental, medical, financial and recreational services, adequacy of uniforms). Such services are typically provided because they help ensure the operational efficacy of CF members as well as contribute to such issues as morale and cohesion. The scale reported a Cronbach's  $\alpha$ =.88 (Oakes, 1994).

Education and Training Scale - contains 8 items which discuss availability, adequacy and usefulness of training received within a military context. The scale had a reported internal consistency of  $\alpha$ =.74 (Oakes, 1994). <u>Human Rights Scale</u> - contains 9 items which discuss level of satisfaction servicemembers have with CF policies and procedures regarding Human Rights (e.g., discrimination, abuse of authority, harassment). The scale had a reported internal consistency of  $\alpha$ =.79 (Oakes, 1994).

<u>Family-Life Scale</u> - has 6 items which measure the effects of a military career on family life, social life, financial stability and living in a desired place of residence. The scale had good internal consistency (Cronbach  $\alpha$ =.79, Oakes, 1994).

<u>Career Intentions Scale</u> - assessed members' intentions to stay in or to leave the CF and their willingness to accept special retirement buy-out packages (Force Reduction Program). The four items in this scale had good internal consistency (Cronbach  $\alpha=0.83$ , Oakes, 1994).

<u>Section 3 - Satisfaction with Employment</u> - measures satisfaction with working relationships (e.g., superiors, peers, subordinates), working conditions and hours of work. The questions in this section focus on "job-specific variables" or antecedents to job satisfaction (Mobley, 1979). This section has 51 items which are grouped into

four different measures:

Job Satisfaction Scale - has 10 items which measure individual satisfaction with specific aspects of present employment(i.e., variety, supervision received, responsibility) with good internal consistency (Cronbach's  $\alpha$ =.79 Oakes, 1994).

Working Relationships Scale - contains 24 questions dealing with leadership, relationships with coworkers, and the effect of subordinates' attitudes and technical ability on leader satisfaction (Cronbach  $\alpha$ =.93,Oakes, 1994). This scale correlated with both job satisfaction (r=.51) and organizational satisfaction (r=.44). Low scores indicate strong satisfaction with either leadership, peer-relations or subordinate relations.

<u>Working Conditions-Operational Scale</u> - addresses concerns such as too much work, not enough compensation received for overtime, old poorly maintained buildings, and cramped spaces. The 7 items in this scale had excellent internal consistency (Cronbach's  $\alpha$ =.92, Oakes, 1994).

Norking Conditions-Static Scale - asks the same

questions as working conditions-operational but addresses working conditions for those members in nonoperational environments (i.e., support personnel)<sup>1</sup>. The 8 items in this scale had excellent internal reliability (Cronbach's  $\alpha$ =.87, Oakes, 1994).

Section 4 - Career Intentions - measures intention to stay or leave the CF and their willingness to accept special retirement buy-out packages (Force Reduction Program). The six items in this scale had good internal consistency (Cronbach's  $\alpha=0.83$ ; Oakes, 1994).

<u>Section 5 - Personal Information</u> - contains 10 questions related to individual (e.g., age, gender), organizational (e.g., rank, environment), and extra-organizational (e.g., dependent children) variables that may influence satisfaction.

#### Data Analysis

The zero order correlations (Table 6; Oakes, 1994) were used as the LISREL input data. Maximum likelihood estimates as well as goodness-of-fit indices were obtained for the

<sup>&</sup>lt;sup>1</sup>Working conditions in static environment are those conditions in which military members are not working in a unit that is participating in active sea, land or air deployments. This is opposed to an "operational environment" or unit within an operational environment whose members are working in situations such as U.N. missions.

model shown in Figure 4. Indices that estimate goodness-offit of the baseline model only were calculated as recommended by Sobel and Bohrnstedt (1985). Other indices of fit used were the adjusted GFI (AGFI), the ratio of  $\chi^2$ to its degrees of freedom and an examination of the root mean square residuals (RMSR). Acceptable values for the GFI and AGFI are usually above .90. Values less than this usually indicate the model can be substantially improved (Marsh, Balla, & McDonald, 1988). For the  $\chi^2$ /df ratio, values between 2 and 5 indicate a reasonable fit to the data (Kelloway, 1995) whereas values less than one indicate "overfitting" and capitalization on chance (Loehlin, 1987).

Loadings of the observed variables "career management", "work relations" and "career intentions" were set to a predefined value. This was required by the LISREL program to establish a metric to compute the loadings of remaining observed variables. As such, significance levels are not reported for these variables by LISREL.

The models, where possible, were corrected and simplified. First, the models were corrected on the basis of their modification indices which would allow a comparison of the original model and other nested models. Modification was only carried out if it was consistent with the theoretical background of the constructs being investigated.

Finally, the models were simplified by eliminating nonsignificant relationships that did not also reduce the overall goodness of fit. It must be stressed that the goodness-of-fit index (GFI) as well as other calculated indices, which are obtained through LISREL, may be faulty due to their sensitivity to large sample sizes. Relevant to the present research, the original sample (N=3272) was randomly subdivided into two separate data sets. Hence, the model was confirmed using one set of data and then variations of that same model were explored using the second data set. Notwithstanding, the resultant sample size was still large (N=1500) and could artificially inflate goodness-of-fit indices and chi-square estimates.

#### Table 6

Variable	1	2	3	4	5	6	7	8	9	10	11	12
<ol> <li>CRMGT</li> <li>WCONOP</li> <li>COMPBEN</li> <li>HRGTS</li> <li>EDTRG</li> <li>JOBSAT</li> <li>SVCSPT</li> <li>WCONST</li> <li>WRKREL</li> <li>OVRSAT</li> <li>FAMLIF</li> <li>CARINT</li> </ol>	- .30 .51 .45 .44 .42 .42 .32 .41 .58 .13 .14	- 14 .22 .29 .31 .32 .30 .25 .30 .10 .10	- 37 .34 .25 .39 .23 .23 .38 .12 .11	. 36 . 33 . 43 . 29 . 31 . 41 . 10 . 12	- .35 .44 .32 .30 .41 .12 .12	.30 .29 .51 .61 .09 .18	- .39 .28 .42 .13 .13	- .25 .37 .10 .10	- .44 .07 .11	.14	.10	-
M SD	2.57 .83	2.82 1.10	2.90 .78	3.10 .72	3.15 .76	3.34 .85	3.37 .54	3.41 .76	3.48 .73	3.75 .58	2.28 1.03	3.64 1.26

Means, Standard Deviations and Zero-Order Correlations

Source: Oakes, L.J. (1994) Personnel Attitudes and Perceptions Toward Conditions of Service in The Canadian Forces. Willowdale, ON: CFPARU

Note 1. CRMGT = Career Management. WCONOP = Operational working conditions. COMPBEN = Compensation and Benefits. HRGTS = Human Rights legislation. EDTRG = Education and Training. JOBSAT = Satisfaction with present working conditions. SVCSPT = Support services. WCONST = Static working conditions. WRKREL = Working relations. OVRSAT = Overall satisfaction. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions.

Note 2. All correlations were reported to be significant to p<.01.

#### **Results**

The corrected and simplified model is presented in Figure 5. It represents a moderately good fit to the data collected with the CFCSQ. The fit indices ( $\chi'_{(0,2)}$ =375.09; GFI = .96; AGFI = .94; RMSR = .038) met or exceeded acceptable fit values. The small difference between GFI and AGFI values also suggested the fit was parsimonious.

However, the  $\chi^2$  to-degrees-of-freedom ratio ( $\chi^2/df=7.2$ ) indicated a poor fit. Since the  $\chi^2$  is sensitive to sample size, the value of N in the model was reduced from 1500 to 300 and re-evaluated. This produced an acceptable  $\chi^2/df$ ratio = 1.4 (Loehlin, 1987) without affecting the RMSR, GFI and AGFI indices. Modification indices for the Oakes (1991) model as represented in Figure 4 indicated no additional paths could be freed to improve the fit of the model to the data.

Figure 5 shows that the LISREL analyses did not support Oakes' (1991) proposed direct causal pathway from policies and procedures to turnover intentions. Rather, there was a significant indirect effect through job and organizational

<sup>&</sup>lt;sup>2</sup>Kelloway (1995) states that the degree to which the GFI and AGFI values are identical is an indication of the most parsimonious solution. This is due to the nature of the GFI which is based on the ratio of the sum of the squared discrepancies to the observed variances and the AGFI, which adjusts the GFI for degrees of freedom.



Figure 5: Standardized solution of CFCSQ unanalysed scales.

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satisfaction from policies and procedures and turnover (.309). Policies and procedures was a very strong predictor of job and organizational satisfaction (**B**=0.821, p< .01) while job & organizational satisfaction was a moderately weak, but significant, predictor of turnover intentions (**B**=0.258, p< .01).

#### Discussion - Fit of Oakes' (1991) Model

Study 1 partially confirmed that Oakes' (1991) adapted version of Mobley's Expanded Turnover Process fits the CFCSQ data. The organizational variables defined by Mobley (e.g., policies and procedures) predicted satisfaction directly, and through it, intent to stay or leave the CF. However, policies and procedures did not directly influence turnover, which was originally hypothesized in Oakes' (1991) model. Consistent with the original model there was a significant indirect effect from policies and procedures to turnover intention.

#### Study 2

## Introduction

With the exception of measuring internal consistency, the measures contained within the CFCSQ were not subjected to psychometric analysis. The failure to assess the

construct validity of the measures leaves open to question the degree of error variance contained in the measures. This is one possible explanation why the Oakes model did not provide a more parsimonious fit of the data. Factor analysis is an accepted procedure for establishing construct validity. Additionally, it minimizes the number of variables while maximizing the amount of reliable variance (Gorsuch, 1993). Study 2 used exploratory factor analysis to determine the dimensional structure of each measure and to revise questionnaire items that were producing little more than error variance. The use of the improved measures was expected to produce a better fit of Oakes' model to the CFCSQ data in subsequent LISREL analyses.

#### Data Analysis

Exploratory factor analyses were carried out on all items with Likert-type response scales. Principal Axis Factor (PAF) method, in combination with orthogonal rotation, was used to explore the factor structure of each scale. The correlation matrix of items, the Kaiser-Myer-Olkin measure of sampling adequacy for each item, initial communalities and Cronbach's alpha were examined to identify problem items. The problem items were then verified with the final factor output to determine the amount of variance they predicted.

Each scale contained in the CFCSQ was factor analyzed separately, since each addressed a separate construct (Oakes, 1994). Missing data were replaced through mean substitution. The number of factors for each scale was determined through application of the Kaiser rule (Loehlin, 1987), examination of the scree plot, and review of the associated eigen values for each factor. Factors with eigen values below 1.0 (Nunnally, 1978) and not explaining a minimum of 10% of the variance were dropped from subsequent analyses except where doing so violated the theoretical framework. In addition, items which did not have a factor loading in excess of .50 were dropped from the scale.

#### **Results**

#### PAF Analyses

The PAF analyses produced seven scales with one factor each and four scales with two factors. Fourty-four CFCSQ items did not load on any factor and were dropped from subsequent analyses. All factors were internally consistent with alpha values ranging from .72 to .93 and accounted for 24% to 57.7% of the total variance for each scale. Tables 7 and 8 present the scales, their factor solutions and their psychometric properties respectively.

# Table 7

Factor Loadings (LD), Communalities(COM) and Percentage of Variance for each section of the CFCSQ items.

Scale: Overall Satisfaction	Variance	LD	COM
	37.18		
Overall satisfaction with CF career Overall satisfaction with Challenge o Overall satisfaction with responsibil Satisfaction with Sense of Adventure Overall satisfaction with CF Overall satisfaction with variety of Overall satisfaction with MOC Satisfaction with Skills & Training a	f CF ity career cquired	.69 .69 .61 .60 .60 .58 .57	.53 .57 .46 .70 .39 .43 .36 .32
Scale: Compensation & Benefits			

#### 31.4%

Satisfaction	with	Pay Incentives	72	.52
Satisfaction	with	Annual Salary	71	.51
Satisfaction	with	Separation Allowance	.63	.40
Satisfaction	with	Foreign Duty Allowance	.63	.40
Satisfaction	with	Posting Allowance	.63	.40
Satisfaction	with	House Hunting Trip	.56	.31
Satisfaction	with	TD pay	.55	.31
Satisfaction	with	Environmental Allowance	.51	.26

# Scale: Career Management 54.3%

Factor 1 - Promotion System 40.8%

Satisfaction with Promotion System Effectiveness Satisfaction with Promotion System Fairness	.7 <del>9</del> .78 .76	.62
Satisfaction with Effectiveness of Merit Boards Satisfaction with Fairness of Merit Board Process Satisfaction with Importance placed on PER	.76 .64	.57
Satisfaction with Recognition of Individual Merit Satisfaction with Promotion Prospects	.61 .59	.38 .35
Factor 2 - Career Counsel 13.5%		
Satisfaction with Adequacy of Career Counsel Satisfaction with Availability of Career Counsel	.94 .90	.88 .81

### Table 7 Continued:

Factor Loadings (LD), Communalities(COM) and Percentage of Variance for each section of the CFCSQ items.

Scale: Service	Support	Variance	LD	COM
		248		
Factor 1 - Adri	nistrative Services	248		
Satisfaction with Satisfaction with Satisfaction with Satisfaction with Satisfaction with Satisfaction with	Pay Office hours of Ope Financial service avail Admin Office hours of O Admin service availabil quality of Financial se quality of Admin servic	ration ability peration ity rvices es	.81 .79 .78 .76 .68 .67	.59 .65 .61 .63 .47 .45
Scale: Educatio	n and Training	47.5%		
Factor 1 - MOC	Specific Training	30.2%		
Satisfaction with Satisfaction with Satisfaction with Satisfaction with	MOC training adequacy MOC training length MOC training currency MOC training usefulness		.82 .71 .69 .68	.68 .50 .50 .49
Factor 2 - Seco	nd Language Trainin	g 17.3%		
Satisfaction with satisfaction with	SLT opportunity SLT availability		.86 .86	.74 .73
Scale: Human Ri	ghts Policies	31.1%		

Satisfaction with policies & procedures .77 on Personal Harassment .59 Satisfaction with policies & procedures on Personal Discrimination .68 .82 Satisfaction with policies & procedures .46 .68 on Sexual Harassment Satisfaction with Access to Personal Information .61 .36 .60 Satisfaction with Privacy Act

# Scale: Effects of CF on Family Life 37.6%

Degree	to	which	Military	affects	family life in general	.67	. 45
Degree	to	which	Military	affects	partner relationship	.67	. 44
Degree	to	which	Military	affects	social life	.62	. 39
Degree	to	which	Military	affects	financial ability	.62	. 38
Degree	to	which	Military	affects	academic upgrading	.55	.31
Degree	to	which	Military	affects	living where you want	.53	.28

# Table 7 Continued:

Factor Loadings (LD), Communalities(COM) and Percentage of Variance for each section of the CFCSQ items.

		Variance	ID	CON
Scale: Job	Satisfaction	49.68		
Satisfaction Satisfaction Satisfaction Satisfaction Satisfaction Satisfaction Satisfaction employment Satisfaction employment Satisfaction employment	with responsibility in prese with challenge of present em with excitement of present e with your authority in prese with decision making opportu with sense of accomplishment with variety in present empl with defined objectives in p with supervision received in with the level of stress wit	nt employment ployment mployment nt employment nities oyment resent present hin present	.78 .77 .76 .72 .72 .72 .68 .58 .50	.60 .69 .59 .52 .52 .52 .46 .33
Scale: Worl Factor 1 -	k Relations Leadership	57.7% 32.6%		
Satisfaction Satisfaction Satisfaction Satisfaction Satisfaction Satisfaction Satisfaction Satisfaction Satisfaction Satisfaction Satisfaction	with how leader provides lea that leader provides directi that leader is supportive that leader maintains high p with how leader encourages c that leader recognizes your with leader provides perform with how leader encourages t with how leader accepts advi with how leader encourages c with leaders technical abili	dership on erformance levels ommunication performance ance feedback eamwork ce ommitment to CF ties	.86 .84 .82 .81 .78 .75 .73 .68 .68	.75 .70 .66 .67 .61 .57 .54 .46 .47 .39
Factor 2 - with Suborg	Leader Satisfaction	17.5%		
Satisfaction	with subordinates acceptance	of direction	.76	.59

Satisfaction with	subordinates	acceptance of direction	.76	.59
Satisfaction with	subordinates	standard of performance	.75	.56
Satisfaction with	subordinates	support for you	.75	.56
Satisfaction with	subordinates	respect for your rank	.75	.57
Satisfaction with	subordinates	respect for your position	.75	.56
Satisfaction with	subordinates	communication with you	. 69	.49
Satisfaction with	subordinates	commitment to the CF	. 69	. 49
Satisfaction with	subordinates	loyalty to the CF	. 68	.46
Satisfaction with	subordinates	training	. 62	. 39
Satisfaction with	subordinates	technical abilities	.61	. 38

# Table 7 Continued:

Factor Loadings (LD), Communalities(COM) and Percentage of Variance for each section of the CFCSQ items.

	Variance	ID	COM
Scale: Work Conditions	41.38		
Factor 1 - Static Work Condi	tions 26.3%		
Satisfaction that its a healthy en	vironment	. 69	.48
Satisfaction with working space		.68	.54
Satisfaction with cleanliness		. 68	.46
Satisfaction with lighting		.66	.47
Satisfaction with safety in the wo	rkplace	. 62	. 39
Satisfaction with privacy	•	.62	.37
Satisfaction with washrooms		.58	.34
Factor 2 - Operational Work	Conditions 15.0%		
Satisfaction that its a healthy er	vironment	.72	.53
Satisfaction with working space		.72	.52
Satisfaction with adequacy of trai	ning facilities	. 66	.46
Satisfaction with privacy	-	. 65	. 42
Satisfaction with workplace safety	1	. 64	.42
Satisfaction with washrooms		.60	.35
Satisfaction with availability of	equipment	59	.54
Satisfaction with quality of equip	ment	58	.52

#### Scale: Career Intentions

47.5%

Intend to leave CF within two years/end of contract	.83	. 69
Intend to get a civilian job within two years	. 82	.67
Would accept FRP if offered	.76	.58

# Table 8

Measur	es of	Samp	ling	Adequacy,	Means,	Standard	Deviations,
and Re	liabi	lity 1	Estin	nates			

Scale	<u>KHO</u>	Ň	STD	α
Overall Satisfaction	.865	3.80	. 585	.83
Compensation & Benefits	.910	3.04	.437	.86
Career Management	.775	2.85	.749	.86
Support Services	.829	3.52	.556	.87
Education & Training	.719	3.40	.672	.72
Human Rights Legislation	.770	3.50	.865	.74
Effects of CF on Family Life	.798	3.60	.966	.79
Job Satisfaction	.914	3.11	.665	.91
Work Relations	.916	3.36	.826	.93
Work Conditions	.856	3.32	.678	. 89
Career Intentions	.824	3.21	. 806	.79

Table 9 presents the correlation matrix, means and standard deviations of the new scales that served as the input for subsequent linear structural modelling. Although, "Static Working Conditions" and "Operational Working Conditions" were two separate factors, they were highly correlated. To avoid problems of multicolinearity, these scales were combined into one. Table 9

Revised Means, Standard Deviations and Zero-Order Correlations of Factor Analysed

Scales

Variable	1	2	3	4	5	6	7	8	9	10	11
<ol> <li>OVRSAT</li> <li>COMPBEN</li> <li>CRMGT</li> <li>SVCSPT</li> <li>EDTRG</li> <li>HRGTS</li> <li>JOBSAT</li> <li>WRKREL</li> <li>WCOND</li> <li>CARINT</li> <li>FAMLIF</li> </ol>	- 25** .47** .23** .39** .32** .59** .51** .28** .13**	- 40** .26** .25** .31** .24** .26** .28** .11** 17**		27** 27** .18** .23** .34** .04 14**	- .35** .37** .33** .45** .11* 18**	. 32** . 30** . 38** . 05 09**	- .56** .38** .07 13**	.22* 03 08*	* - .06 ~.16**	11	-
M SD	3.79 .61	3.44 .57	3.21 .80	3.49 .78	3.41 .66	3.51 .73	3.40 .80	3.65 .66	3.33 .67	3.56 1.08	3.61 .95

Note 1. OVRSAT = Overall satisfaction. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. JOBSAT = Satisfaction with present working conditions. WRKREL = Work Relations. WCOND = Working conditions. CARINT = Career Intentions. FAMLIF = Effect of CF on Family Life.

\*p<.05 \*\*p<.01

The data presented in Table 9 served as the input data for a new LISREL analysis. Figure 6 presents the results of of this re-analysis. The model, based on the improved measures fit the data moderately well. The fit indices  $(\chi^2_{(42)}=410.93; \text{ GFI}=.95; \text{ AGFI}=.93; \text{ RMSR}=.047)$  met or exceeded acceptable values. The small difference between GFI and AGFI values also suggested the fit was parsimonious. However, the  $\chi^2$  to-degrees-of-freedom ratio ( $\chi^2/df=9.0$ ) again indicated a poor fit; decreasing the value of N from 1500 to 300 led to results similiar to those presented in Study 1. The  $\chi^2/df$  ratio = 1.8 was an acceptable fit without affecting the RMSR, GFI and AGFI indices(Loehlin, 1987). Modification indices for the base model did not suggest any ways to improve the fit of the model.

The LISREL analyses confirmed an indirect effect from policies and procedures to turnover (.229). Also, as in illustrated in Figure 6, policies and procedures strongly predicted job & organizational satisfaction (B=0.770, p<.01), while job & organizational satisfaction predicted "Turnover Intentions" (B=0.175, p<.01) to a lesser degree.



Figure 6: Standardized solution of Revised CFCSQ Scales.

5:9. @ 05\* \$19 @ 01\*\*

# Discussion - Psychometric properties of the CFCSQ

Several conclusions can be drawn from Study 2. The new scales which meet acceptable psychometric standards are valid measures satisfaction and turnover. The revised job satisfaction scale had a better internal consistency (Cronbach's  $\alpha$  of .91 vs .79). All other scales were relatively similiar with the exception that they more parsimonious. The revised scales had fourty-four less items and achieved the same measures of internal consistency. One exception was the Career Intentions scale. One item (i.e., "I intend to stay in the CF as long as I can.") was dropped because of large amounts of missing data. The revised scale had an alpha = .79 compared to .83.

The new scales had strong measures of sampling adequacy (Kasier-Meyer-Olkin (KMO) values) and communalities, indicating that the scales consisted of items that were related. Values ranged from .72, which is described as 'good', to .92 which is described as 'marvelous' (Norusis, 1990). In addition, the revised scales (Table 9) explained more variance than the originals. In part, the improvement resulted from the deletion of items which had a large amount of missing data. Many of the items with missing data used both "Don't Know" and "Doesn't Apply" in their responses, in conjunction with a "neutral" response, which appears to have led to inconsistency in reporting. It is highly unlikely

that military personnel would be unaware of the issues addressed in the CFCSQ (e.g., "How satisfied are you with Medical, Dental or Administrative services?"). "Don't Know" or "Doesn't Apply" responses may have been due to indifference on the part of the military personnel rather than a lack of knowledge.

In summary, using the original scales embedded in the CFCSQ to test the Mobley et al. (1979) model may not have been a fair test since these scales were not parsimonious and did not have the best internal consistency. Factor analyses produced psychometrically sound scales. When these revised scales were used to test the model, an acceptable fit occurred. The revised version of the CFCSQ has 44 less items which also has the benefit of providing reduced administration time.

## Study 3

#### Introduction

Oakes' (1994) examined whether CF members who wore different Distinctive Environmental Uniforms (DEU) had different levels of job and organizational satisfaction and subsequently left the CF at different rates. Oakes did not find any differences on CFCSQ measures across DEUs through multivariate analysis of variance. Study 3 sought to confirm Oakes' (1994) results using the new psychometrically improved measures through LISREL analyses.

# Method

The data were categorized according to service members' DEU. 1,303 service members reported wearing an Army (light brown) uniform, 535 service members reported wearing a Naval (white/black) uniform and 1,386 reported wearing an Airforce (light blue) uniform for a total N of 3,224. Correlation matrices were computed for the study variables for each DEU. Tables 10-12 report the means, standard deviations and correlations used as the input data for the multi-sample LISREL analyses. Multi-sample analyses permit more parameters to be held constant across groups to test whether the correlation matrices or variance-covariance matrices are equal, whether correlated common factors exist, or whether the factor loadings, error variances and factor intercorrelations are equal. A copy of the command file for the analysis is attached as Appendix A.

### Table 10

Variable	1	2	3	4	_5	6	7	8	
<ol> <li>OVRSAT</li> <li>COMPBEN</li> <li>CRMGT</li> <li>SVCSPT</li> <li>EDTRG</li> <li>HRGTS</li> <li>FAMLIF</li> <li>JOBSAT</li> <li>LDRSHP</li> <li>SUBREL</li> <li>WCONOP</li> <li>CARINT</li> </ol>	- .24** .50** .28** .45** .35** .37** .37** .33** .13**		-24** .44** .34** .09** .42** .38** .26** .35**		- .38** 09** .40** .30** .29** .42** .14**	10** .40** .28** .27** .38** .14**	10** .002 04 18** 05	- 48** 34** 29** 43**	
M SD	3.7 .68	3.5 .61	2.8 .79	3.4 .88	3.3 .70	3.5 .76	3.6 .98	3.3 .84	

Army DEU Means, Standard Deviations and Zero-Order Correlations

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

Note 2. \*\*=p< .01; \*=p< .05
Table 10 continued:

Army DEU Means, Standard Deviations and Zero-Order Correlations

Variable	9	10	11	12
1. OVRSAT 2. COMPBEN 3. CRMGT 4. SVCSPT 5. EDTRG 6. HRGTS 7. FAMLIF 8. JOBSAT 9. LDRSHP 10.SUBREL 11.WCONOP 12.CARINT	- 29** 25** .06**	- .23** .07**	_ .14**	-
M SD	3.5 .88	3.7 3 .70	3.0 3. .81 1	4 .09

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

Table 11

Navy DEU Means, Standard Deviations and Zero-Order Correlations

Variable	1	2	3	4	5	6	7	8	
1. OVRSAT 2. COMPBEN 3. CRMGT 4. SVCSPT 5. EDTRG 6. HRGTS 7. FAMLIF 8. JOBSAT 9. LDRSHP 10.SUBREL 11.WCONOP 12.CARINT		- 45** .34** .37** .30** 10* .24** .19** .23** .34** .006	-4** .24** .29** .29** .43** .35** .39** .39** .07	36** .28** 09 .23** .13** .20** .27** .06	-37** 14* .38** .18** .33** .33** .57**	07* .30** .25** .31** .40** .06	*10 14** 10 05 05	- .52** .31** .44** .11**	
M SD	3.8 .61	3.4 .59	2.9 .73	3.5 .75	3.3 .67	3.5 .76	3.6 .90	3.5 ,79	

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

# Table 11 continued:

Navy DEU Means, Standard Deviations and Zero-Order Correlations

Variable	9	10	11	12		 	
1. OVRSAT 2. COMPBEN 3. CRMGT 4. SVCSPT 5. EDTRG 6. HRGTS 7. FAMLIF 8. JOBSAT 9. LDRSHP 10.SUBREL 11.WCONOP 12.CARINT	- 20** 29** ,05	- . 35** . 04	.08	~			
M SD	3.6 .78	3.7 .61	3.1 .79	3.6 1.06			

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with Jeader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

Table 12

Va	riable	1	2	3	4	5	6	7	8	
1. 2. 3. 5. 7. 8. 9. 10 11 12	OVRSAT COMPBEN CRMGT SVCSPT EDTRG HRGTS FAMLIF JOBSAT LDRSHP SUBREL WCONOP CARINT	- .27** .47** .21** .33** .33** .33** .59** .31** .35** .25** .05	- 45** .26** .32** .33** .13** .13** .23** .19** .21** .38 .05	- .23** .31** .43** 13** .40** .34** .30** .41** .07	18 * *	28** 14** . 37** . 24** . 26** . 33** . 04	08* .30** .23** .28** .39** 03	*09** 08* 02 18 07	- .52** .31** .44** .11**	
M SD		3.8 .59	3.4 .57	2.8 .77	3.5 .77	3.5 .63	3.5 .75	3.5 .97	3.4 .81	

Air DEU Means, Standard Deviations and Zero-Order Correlations

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

#### Table 12 continued:

Air I	DEU Means	, Standard	Deviations	and	Zero-Order	Corre	lations
-------	-----------	------------	------------	-----	------------	-------	---------

Variable	9	10	11	12	
1. OVRSAT 2. COMPBEN 3. CRMGT 4. SVCSPT 5. EDTRG 6. HRGTS 7. FAMLIF 8. JOBSAT 9. LDRSHP 10.SUBREL 11.WCONOP 12.CARINT	.31** .29** .03	.20** 07	.03		
M SD	3.5 .86	3.8 .65	3.3 .72	$\substack{\textbf{3.5}\\\textbf{1.10}}$	

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

#### **Results**

The multi-group LISREL analyses produce a moderate fit of the model to the data. The fit indices for the Army DEU group (GFI=.96; RMSR=.042) and Navy DEU group (GFI=.94; RMSR=.048) met or exceeded acceptable fits values. The overall fit indices for the three groups ( $\chi^2_{(15e)}$ =360.57; GFI=.96; RMSR=.046) and the overall  $\chi^2$ /df ratio of 2.3 indicate the three models fit the data in a similiar fashion.

# Study 4

#### Introduction

The rec<sup>1</sup>ts for study 3 confirmed Oakes' (1994) findings that differential rates of job satisfaction and turnover are not present using DEU as the criterion. However, using DEU as a criterion measure may not be the best indicant of job and organizational satisfaction or turnover. A more accurate criterion might be one which accurately taps into the specific culture, or in a military context, the operational element, in which the service member is employed.

Schein (1985) argued that to understand how an organization operates, one must be aware of the influences different sub-cultures exert within the organization.

Because many CF personnel are cross-employed within different operational and support environments, distinctive environmental uniform may not be an appropriate criterion on which to base job and organizational satisfaction and turnover intention. Operational grouping may be a more meaningful way which to explore differential rates of satisfaction across the three different subcultures. Operational personnel may have devloped a closer affinity with their particular subculture. Grouping on the basis of DEU may have obscured the influence of the subculture as support personnel wearing different color uniforms may not have identified with that culture.

Study 4 examined whether differential rates of job/organizational satisfaction and turnover existed for CF personnel working in Land Operations (LandOps; N=460), Naval Operations(NavalOps; N=404) and Air Operations (AirOps; N=497). Personnel working in a support MOC (Support; N=1584) were examined separately.

#### Method

The CF personnel were grouped into either operational or support categories by following Canadian Forces Adminsitrative Order (CFAO) 2-10 which specifies the grouping of all MOCs within the CF. Table 13 outlines the MOCs and their particular operational element.

# Table 13

# Branch and Operational Groupings

#### Land Operations

Officers	Non-Comissioned Members
Armour 21	Crewman 011
Artillery 22	Antilleryman (Field) 021
Infantry 23	Artilleryman (Air Defence) 022
	Infantryman 031

### Naval Operations

<u>Officers</u>	
Maritime Engine	er 45
Maritime Surface	e &
Sub-surface	71

Non-Comissioned Members Boatswain 181 **Clearance Diver 341 Clearance Diving Technician 342 Electrical Technician 331** Hull Technician 321 Marine Electrician 332 Marine Engineer Artificer 314 Marine Engineering Mechanic 312 Marine Engineering Technician 313 Naval Acoustics Operator 273 Naval Combat Information Operator 275 Naval Electronic Sensor Operator 276 Naval Electronics Technician (Acoustics) 283 Naval Electronics Technician (Communications) 284 Naval Electronics Technician (Manager) 286 Naval Electronics Technician (Tactical)285 Naval Radio Operator 274 Naval Signalman 262 Naval Weapons Technician 065 Oceanographic Operator 191

# Table 13 continued:

# Air Operations

Unicers	NON-U
Aerospace Engineering 41	Aero E
Air Navigator 31	Airbon
Air Traffic Control 63	Operat
Air Weapons Control 64	Airfran
Flight Engineer 65	Air De
Meteorology 73	Air Tra
Pilot 32	Air We
	Techni

Non-Comissioned Members Engine Technician 511 ne Electronic Sensor or 081 me Technician 512 efence Technician 171 affic Controller 161 eapons Systems Technician 572 **Communications and Radar** Systems Technician 524 Aviation Technician 513 **Avionics Technician 525** Flight Engineer 091 Instrument Electrical Technician 551 Integral Systems Technician 521 Machinist 562 Metals Technician 561 Meteorological Technician 121 Photographic Technician 541 **Refinisher Technician 563** Safety Systems Technician 531 Search and Rescue Technician 131 Weapons Technician (Air) 571

# Table 13 continued:

# Support

Officers	Non-Commissioned Members
Personnel Administration 68	Administrative Clerk 831
Music 75	Musician 871
Pastoral Associate 59	Communications Technician 224
Chaplain (P) 61	Communicator Research 291
Chaplain (RC) 62	Lineman 052
Communications &	Radar Technician 231
Electronics Engineer 42	Radio Operator 211
Dental 51	Radio Technician 221
Dental Associate 52	Teletype & Cypher Technician 223
Intelligence 82	Teletype Operator 212
Land Electrical and	Terminal Equipment Technician 222
Mechanical Engineer 43	Intelligence Operator 111
Legal 67	Electro-Mechanical Technician 431
Logistics 69	Fire Control Systems Technician 435
Health Care	Fire Control Technician (Electronic) 432
Administration 48	Fire Control Technician (Optronic) 433
Medical 55	Materials Technician 441
Medical Associate 56	Vehicle Technician 411
Nursing 57	Weapons Technician (Lar.d) 421
Pharmacist 54	Ammunition Technician 921
Physical Therapy 49	Cook 861
Social Work 58	Finance Clerk 841
Military Engineer 45	Mobile Support Equipment Operator 935
Personnel Selection 72	Steward 862
Physical Education &	Supply Technician 911
Recreation	Traffic Technician 933
Postal 76	Aero Medical Technician 717
Public Affairs 66	Medical Assistant 711
Security 81	Medical Laboratory Technician 714
Training & Development 74	Operating Room Assistant 713
	Preventive Medicine Technician 716
·	X-ray Technician 715
	Construction Engineering Technician 611
	Construction Engineering
	Procedures Technician 631
	Construction and Maintenance Technician 615
	Electrical Generating Systems Technician 622
-	Electrician 614
	Field Engineer 041

.

Table 13 continued

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Field Engineer Equipment Operator 042 Fire Fighter 651 Map Reproduction Technician 151 Mechanical Systems Technician 625 Plumber Gas Fitter 613 **Refrigeration and Mechanical Technician 621** Stationary Engineer 623 Structures Technician 612 **Topographical Surveyoer 141** Water, Sanitation and POL Technician 624 Physical Education and Recreation Instructor 851 Postal Clerk 881 Military Police 811 **Dental Clinical Assistant 722 Dental Equipment Technician 724 Dental Laboratory Technician 723 Dental Hygienist 725** 

# Data Analysis

Tables 14-16 present the correlation matrices for each operational group. The matrices were used as input data for multi-group analysis in Lisrel (version 7.16). Table 17 presents the correlation matrix for support personnel. The Static Working Conditions" scale did not apply to the operational groups and was dropped from the model. Data for the support personnel (N=1584) were analysed separately to determine if their perceptions differed from those in operational elements. Table 14

Variable	1	2	3	4	5	6	7	8	
1. OVRSAT 2. COMPBEN 3. CRMGT 4. SVCSPT 5. EDTRG 6. HRGTS 7. FAMLIF 8. JOBSAT 9. LDRSHP 10.SUBREL 11.WCONOP 12.CARINT	- 7** 48** 50** 36** 62** 31** 39** 29** 13		.27** .46** .30*** .11** .35*** .27** .39** .19	- 34** - 27** - 17** - 15** - 15** - 30** - 39** - 13	-42** 16** .39** .32** .43** .14	05 .40** .30** .28** .43** .22**	12* 04** 08 24** 05	- 44** - 34** - 31** - 17*	
M SD	3.6 .74	3.4 .63	2.8 .78	3.1 .92	3.3 .68	3.4 .80	3.7 .94	3.2 .85	

LandOps Means, Standard Develations and Zero-Order Correlations

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

LandOps Means, Standard Deviations and Zero-Order Correlations

Variable	9	10	11	12			
1. OVRSAT 2. JOBSAT 3. LDRSHP 4. SUBREL 5. FAMLIF 6. CARINT 7. COMPBEN 8. CRMGT 9. SVCSPT 10.EDTRG 11.HRGTS 12.WCONOP	.30** .31** .05	.25** 06	.30**	<b>14. Januari, 14. Januari</b>			
M SD	3.4 .85	3.7 .71	2.8 .83	3.4 1.06			

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

# Table 15

Nava.	lOps	Means,	Standard	Deviations	and	Zero-Order	Correl	.ations

Variable	1	2	3	4	5	6	7	8	
1. OVRSAT 2. COMPBEN 3. CRMGT 4. SVCSPT 5. EDTRG 6. HRGTS 7. FAMLIF 8. JOBSAT 9. LDRSHP 10.SUBREL 11.WCONOP 12. CAPINT	.36** .49** .24** .43** .42** .42** .42** .04 .61** .44** .38** .38** .47**	- .50** .34** .37** .28** 008 .26** .16** .26** .33**	-30** -48** -32** -10 -38** -39** -29** -44**	.36** .27** 03 .22** .06 .16* .21**	- .35** 005 .40 .07 .28** .62**	.03 .38** .24** .33** .40**	07 09 11 .01	.52** .36** .41**	
M SD	3.80	3.41 .57	3.00 .71	3.41 ,75	3.30 .65	3.43	3.68 .86	3.48 .73	

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

Note 2. \*\*=p< .01; \*=p< .05

#### Table 15 continued:

NavalOps Means, Standard Deviations and Zero-Order Correlations

Variable	9	10	11	12	 	 
1. OVRSAT 2. COMPBEN 3. CRMGT 4. SVCSPT 5. EDTRG 6. HRGTS 7. FAMLIF 8. JOBSAT 9. LDRSHP 10.SUBREL 11.WCONOP 12.CARINT			.13	-		
M SD	3.55 .75	3.71 .61	3.08 .75	3.74 1.04		

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

Note 2. \*\*=p< .01; \*=p< .05

# Table 16

Variable	1	2	3	4	5	6	7	8	
1. OVRSAT 2. COMPBEN 3. CRMGT 4. SVCSPT 5. EDTRG 6. HRGTS 7. FAMLIF 8. JOBSAT 9. LDRSHP 10.SUBREL 11.WCONOP 12.CARINT	-28** .46** .16*** .35*** .34** .34** .61** .425* .04	.41** .22** .15** .29** .16** .15** .08 .12* .47** 08	- 4** .35** .38** .38** .35** .35** .33** .29** .48** .01	-20** .27** 10 .15** .11* .18** .20** 15*	- .25** 15** .43** .27** .20* .38** 03	04 .33** .20** .25** .37** 08	13* 14** 08 14* 15*	- .46** .39** .30** .11	
M SD	3.85 .59	3.38 .56	2.87 .76	3.36 .78	3.55 .59	3.53 .73	3.63 .93	3.50 .75	

AirOps Means, Standard Deviations and Zero-Order Correlations

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

# Table 16 continued:

AirOps 1	Means,	Standard	Deviations	and	Zero-Order	Correlations

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

#### Table 17

Variable	1	2	3	4	5	6	7	8	
<ol> <li>CRMGT</li> <li>WCONOP</li> <li>COMPBEN</li> <li>HRGTS</li> <li>SVCSPT</li> <li>EDTRG</li> <li>LDRSHP</li> <li>SUBREL</li> <li>JOBSAT</li> <li>OVRSAT</li> <li>FAMLIF</li> <li>CARINT</li> </ol>	- 33** .41** .38** .24** .36** .35** .28** .44** .50** 10 .16	- 28 * * .37 * * .29 * * .34 * * .25 * * .19 * * .34 .27 * .20 * * .02	31** .30** .31** .20** .25** .25** 14** .08		- .30** .18** .22** .20** .28* 13** .05	-28 .27** .37** .39** 11** .08	- ,31* .53** .33 02* .15*	.35** .34** ~.03** .04	
M SD	2.80 .79	3.23 .79	3.45 .60	3.52 .77	3.62 .78	3.40 .70	3.49 .90	3.75 .69	

Support Means, Standard Deviations and Zero-Order Correlations

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

## Table 17 continued:

Support Means, Standard Deviations and Zero-Order Correlations

Variable	9	10	11	12	·····	 	**********	······································
1. CRMGT 2. WCONOP 3. COMPBEN 4. HRGTS 5. SVCSPT 6. EDTRG 7. LDRSHP 8. SUBREL 9. JOBSAT 10.OVRSAT 11. FAMLIF 12. CARINT	- .60** 09** .05	09** .09	05	_				
M SD	3.35 .86	3.80 .63	3.51 1.00	3.45 1.09				

Note 1. OVRSAT = Overall satisfaction. JOBSAT = Satisfaction with present working conditions. LDRSHP = Leadership. SUBREL = Subordinate relation with leader. FAMLIF = Effect of CF on Family Life. CARINT = Career Intentions. COMPBEN = Compensation and Benefits. CRMGT = Career Management. SVCSPT = Support services. EDTRG = Education and Training. HRGTS = Human Rights legislation. WCONOP = Operational working conditions.

#### **Results**

The simplified LISREL models for military personnel in the LandOps, NavalOps and AirOps environments are presented in Figures 7, 8 and 9 respectively. Figures 7 and 9 are identical to Oakes' model (Figure 4) which served as the base model. Both have seven indicators of policies and procedures, five indicators of job and organizational satisfaction and one indicator of turnover intentions. Figure 8, the NavalOps group, differs in that only four indicators of job and organizational satisfaction are present. The indicator "Effects of CF on Family Life" did not load significantly and was dropped from the model. The common metric standardized solutions and the overall Chi-Square statistic and goodness-of-fit between the three models also demonstrate that the models fit the data differently. Table 18 provides a clear comparison between the results of the separate models.

All three models failed to provide acceptable fit statistics ( $\chi^2_{(11),{\rm sd}_{12}}$ =315.49, GFI=0.927, RMSR=0.060). However, in all models, "Policies and Procedures" strongly predicted "Job & Organizational Satisfaction" (LandOps: B=.824, p< .01; NavalOps: B=.766, p< .01; AirOps: B=.659, p< .01).

In the LandOps model, the pathway from "Job &





Big. @.05\*: Big @.01\*\*





84

19 12:05\*: 54 22:01\*\*



Figure 9: AirOps Common Metric Standardized Solution and Overall Goodness of Fit Index Chi-Square with 160df=565.67 Goodness of Fit Index=0.900 Root Mean Square Residuals=0.074

819 18.05\* 819 6 01\*\*

Organizational Satisfaction" to "Turnover Intentions" was not significant but the pathway from "Policies and Procedures" to "Turnover Intentions" ( $\mathbf{B} = .462, p < .05$ ) was significant. While the Goodness-of-Fit Index (GFI=0.92) for the LandOps model suggested an acceptable fit, the root mean square residuals (RMSR=0.060) did not. In the NavalOps model, the GFI values (GFI=0.91) suggested an acceptable fit but the RMSR (RMSR=0.061) values are not significant. In the NavalOps model neither the pathway from "Job & Organizational Satisfaction" to "Turnover Intentions" or from "Policies and Procedures" to "Turnover Intentions" was significant. In the AirOps model, the pathway from "Policies and Procedures" to "Job & Organizational Satisfaction (B = 0.659, p< .01) was significant. Due to the nature of multi-group analysis, separate fit indices for the final group, cannot be determined.

Oakes model (Figure 10) provided a very good fit to the support group data as shown by the fit indices ( $\chi'/df=2.5$ , GFI=0.960, AGFI=0.940, RMSR=.043). The fit of Oakes model to the support group was superior to the fit to any of the three operational groups (Table 18) whose fit indices did not meet accepted values.



Figure 10. Standardized Solution of Support Personnel. Goodness of Fit Index=0.96 Adjusted Goodness of Fit Index=0.94 Root Mean Square Residuals=.043

Sig a 05\* Sig at 01\*\*

	<b>X</b> <sup>2</sup>	<u>đĩ</u>	<u> </u>	AGEI	<u>RMSR</u>	x <sup>2</sup> /df
Oakes' Model	375.09	52	.960	.940	.038	7.2 (14)
Revised Model	410.93	42	.950	.930	.047	9.0 (1 8)
DEU Model(Air)	369,57	156	960	-	.042	2.3 (Overall)
Navy DEU	-	-	.94	-	.048	-
Army DEU	-	-	.96	-	.042	-
Ops Model(Air)	315.49	156	.927	-	.060	2.02 (Overall)
LandOps	-	-	.922	•	.060	-
NavalOps	•	-	.910	-	.061	-
Support Model	129.52	52	.960	.940	.043	2.50

 Table 18
 Goodness-of-Fit Indices and Chi-Square Estimates for Tested Models

() indicates recalculated chi-square/df ratio with N=300<sup>3</sup>

#### Discussion - DEU vs Environment as a Criterion

Study 3 confirmed Oake's, (1994) earlier finding that differential rates of job and organizational satisfaction did <u>not</u> exist when DEU (uniform color) was the basis for CF members. However, even with the improved measures, the Mobley model did not apply equally to operational groupings. Yet, it provided a good fit when the data were combined across all members as well as for the support group.

<sup>&</sup>lt;sup>3</sup> Acceptable fit indices exist when all of the following prequisites exist: GFI & AGFI values exceed .90; RMSR values are below .05. The ratio of  $\chi^2/df$  is greater than 1.0 but less than 5.0.

Apparently, operational military members and members in support roles (e.g., clerical, administrative, logistical, medical, dental, etc) <u>do not</u> have the same set of satisfiers.

The LISREL multigroup analyses strongly suggested that CF members operating in these different environments perceive CF policies differently which leads to differences in job and organizational satisfaction. First, there is the differential manner in which the three groups' pathways existed between the latent variables. The LandOps model (Figure 7) has a significant pathway from "policies and procedures" to "turnover intentions" which is absent in the other two operational groups as well as the support group. However, the level of job and organizational satisfaction does not lead to turnover intention. Apparently, the existance of policies and procedures alone are enough for LandOps personnel to base their intentions to stay in or leave the CF. This seems to suggest that LandOps personnel intention to stay or leave the CF is determined more by the existance of specific policies and procedures as opposed to indices such as working relations or job satisfaction.

The NavalOps (Figure 8) and AirOps (Figure 9) personnel responded in an indentical manner in regard to turnover intentions as neither "policies and procedures" nor "job and organizational satisfaction" led to the intention to the

leave the CF. However, the observed variable, "Effects of CF on Family Life", for the NavalOps group was not significant whereas it was for the other two operational groups and support group (Figure 10). These results are important because they provide strong evidence for the notion that service members in the three operational groups and one support group respond differentially to indicants of job and organizational satisfaction. These results also support Scheins's (1985) belief that individual organizational cultures or sub-cultures may have unique values, symbols and artifacts which produce a sense of identity and well-being. The results in the case of the three operational elements and one support group are typical of what one might expect for members of different subcultures responding to questions or items which are not salient to their own distinctive environment. Applied to the CF, Schein's theory underscores the need for a cultural specific "thermometer" which not only taps into concerns about conditions of service but which also reflects unique concerns of each operational element. Such culturally specific instruments are needed in the CFCSQ to more accurately judge the efficacy its policies and procedures.

An interesting result of Study 4 was that neither the operational nor support models supported a direct pathway from "job and organizational satisfaction" to "turnover

intentions". Apparently, satisfaction for these groups is not an adequate predictor of turnover intention. This suggests that a better predictor must be found. Commitment (affective) is a more powerful predictor of turnover behaviour than is satisfaction (Lance, 1991). By systematically assessing commitment, the degree of cultural influence can be directly measured. This would give an indication of whether CF members were satisfied (i.e., affective commitment) or if they were dissatisfied but remainir; in the military because it is a "paying job" (i.e., continuance commitment).

# **General Discussion**

There are several suggestions that follow from this research; First, the CFCSQ, with the revised scales, is a psychometrically sound and valid instrument. Regardless of the criterion measured, "policies and procedures" consistently, and significantly, predicted "job and organizational satisfaction". This suggests that feedback from the CFCSQ effectively assesses the relative impact of policies and procedures on conditions of service.

Second, the differential way in which CF members, when classified as operational or support personnel,

responded to the CFCSO items underscores the immediate need for a culturally specific instrument which taps into the unique concerns of those environments. Particularly, "job and organizational satisfaction" did not relate significantly to "turnover intention" when the data were selected according to operational or support grouping. Īn part, this suggests that satisfaction is not a good indicator of intention to stay or leave the CF. As such, a major deficit of the CFCSQ is the absence of any measure of organizational committment. If the CF is determined to measure members' intentions to stay or leave, such a scale must be included in the CFCSO. A commitment scale (e.g., Allen & Myers', 1990), which captures both affective and continuance commitment would be an excellent addition and have the potential to substantially increase the external validity of the CFCSQ. It would also provide more comprehensive feedback to senior executive military personnel for use in ammending policies and procedures that adversely affect conditions of service.

In summary, the model on which the CFCSQ is relevant to CF members is shown by the fit of that model to the data generated by the CFCSQ for both the original scales reported on by Oakes (1994) and the psychometrically improved scales reported in this research. However, this model does not appear to apply eqaully well to all operational units. It

provides a better description of the data obtained for support personnel. This is strong evidence that differential rates of satisfaction and turnover do exist within CF operational units and that these units react differently to policies and procedures. This in turn suggests the need for a more culturally specific instrument as well as one that accurately reflects turnover intention.

#### **Implications for Further Research**

The differential fit of the model across operational units leads to general suggestions for future research. First and foremost, it provides strong evidence for the use of operational units as a criterion measure in future administrations. Second, the results suggest that the unique concerns related to each operational element's culture must be assessed through an "environmental or culturally specific" section within the CFCSQ. Third. organizational committment is a valid predictor of both job satisfaction and turnover intention and measures of it must be built into the CFCSQ. A committment scale would assess not only if military personnel were satisfied, but also provide an indication of why they were satisfied. For example, knowing whether personnel are committed to the organization regardless of external influencers (e.g.,

unpopular media coverage) could be more important than just knowing level of satisfaction. Commitmment, in contrast to satisfaction, is an enduring quality which may reflect changes in emotion that accompany the introduction of an unpopular policy. For example, it is possible for an individual to be dissatisfied with a certain policy, procedure and even a working relationship but still feel committed to the organization.

An attempt was made to assess committment by using items from the CFCSQ data. Specifically, scale items which were similiar in nature to affective committment were extracted from the overall satisfaction scale. These items were then tested for their psychometric properties as a scale and used as input data for LISREL analysis. The data, however were highly correlated with the job satisfaction scale, indicating both scales were measuring the same construct - satisfaction. This failure is encouraging because it provides strong support for the inclusion of a committment scale in the questionnaire. Committment is a distinct construct from satisfaction. The inclusion of such a scale would add greatly to the prediction of satisfaction and turnover.

#### Limitations of Present Study

The present research is based on archival data. Because it is two years old, it may be somewhat dated due to changes presently occurring in the Canadian Forces (e.g., downsizing, budgetary reductions). It is entirely possible that "conditions of service" which were once a concern to military personnel, either in an operational or support capacity, have been overshadowed by new concerns (e.g., the increased number of United Nations deployments). In this regard, a subsequent administration of the revised CFCSQ is necessary to validate present findings.

Second, the current response format of the CFCSQ uses both "Don't Know/Doesn't Apply" categories, in conjunction with "neutral" categories, limits the amount of useable data. For example, under "Support Services" and "Immediate Supervisor Relations", it is highly unlikely that even the very newest of military members would not know enough about administrative, financial and medical services. Given this fact, "Pon't Know" responses in these categories may reflect indifference and not lack of information. The lack of useable information was further compounded by equally large quantities of missing data which compelled the use of mean substitution during factor extraction and analysis procedures. Therefore, the present study may have artificially inflated values for KMO, internal consistency, and percentage of explained variance.

# Conclusion

Notwithstanding the preceding limitations, the present research shows that the CFCSO is both a valid and psychometrically sound instrument that can be used to assess job and organizational satisfaction and their influence on turnover intention. This research also relates previous findings about turnover intentions to organizational cultures and sub-cultures. To be effective predictors of turnover intention, the antecedents of job and organizational satisfaction, must be examined in the context of the unique cultural concerns which define the organization. Broadbased measures, which are designed to reflect global concerns about conditions of service, may ignore more potent and salient cultural issues which truly underly organizational satisfaction. Relevant to the present research, operational grouping is a salient criterion which predictors job and organizational satisfaction and turnover intention.

Future research should incoporate additional predictors of turnover (e.g., commitment) which are culture specific; in this way, identification of the most salient issues to organizational effectiveness may be realized.

#### **Recommendations**

1. Future administrations and analyses of the CFCSQ should report findings according to operational grouping as opposed to environmental uniform. Support personnel should be grouped separately to avoid masking problems that are unique to operational personnel.

2. Include environment specific sections in the CFCSQ that directly tap into the unique concerns of each operational Command. In this way, senior executive personnel will better be able to respond to concerns regarding conditions of service that affect job/organizational satisfaction.

3. Include a scale designed to tap into "organizational commitment" as it is a stronger predictor of turnover behaviour (Lance, 1991; Allen & Myers, 1990) than job satisfaction.

4. Modify, where possible, the response format in the CFCSQ so that both "Don't Know" and "Doesn't Apply" are not possible answers to the same item.

5. Shorten the CFCSQ content by removing those items found in Study 2 that do not adequately load on any scale or predict a significant portion of the explained variance. This will also reduce administration time.
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## APPENDIX "A"

LISREL Program for Multi-Sample Analysis of CF Personnel by Distinctive

Environmental Uniform (DEU)

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# APPENDIX "B"

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LISREL Program for Multi-Sample Analysis of CF Personnel by Operational Grouping

SET PRINTBACK OFF TITLE "EXAMINE CFCSQ VARIABLES" MATRIX DATA VARIABLES= OVRSAT COMPBEN CRMGT SVCSPT EDTRG HRGTS FAMLIF JOBSAT LDRSHP SUBREL WCONOP CARINT /FORMAT=FREE /CONTENTS CORR /SPLIT=SPL BEGIN DATA 1.00 0.27 1.00 0.48 0.38 1.000 0.24 0.28 0.27 1.000 0.49 0.29 0.46 0.34 1.000 0.36 0.36 0.30 0.27 0.42 1.000 -.14 -.21 -.11 -.17 -.16 -.05 1.000 0.62 0.16 0.35 0.25 0.39 0.40 -.12 1.00 0.31 0.17 0.36 0.15 0.39 0.30 -.04 0.44 1.00 0.39 0.14 0.27 0.30 0.32 0.28 -.08 0.33 0.30 1.00  $0.29 \ 0.42 \ 0.39 \ 0.39 \ 0.43 \ 0.43 \ -.23 \ 0.31 \ 0.31 \ 0.25 \ 1.00$  $0.13 \ 0.05 \ 0.10 \ 0.13 \ 0.14 \ 0.22 \ -.05 \ 0.17 \ 0.05 \ -.05 \ 0.30 \ 1.00$ 1.00 0.36 1.00 0.49 0.50 1.00 0.24 0.34 0.30 1.00 0.43 0.37 0.48 0.36 1.00 0.42 0.28 0.32 0.27 0.35 1.00 -.04 -.008 -.10 -.02 -.005 0.03 1.00 0.61 0.26 0.38 0.22 0.40 0.38 -.06 1.00 0.44 0.16 0.39 0.06 0.07 0.24 -.09 0.52 1.00 0.38 0.26 0.29 0.16 0.28 0.33 -.11 0.36 0.22 1.00 0.47 0.33 0.44 0.21 0.62 0.40 0.10 0.41 0.18 0.37 1.00  $0.13 \ 0.05 \ 0.10 \ 0.004 \ 0.09 \ 0.06 \ -.07 \ 0.14 \ 0.17 \ 0.19 \ 0.13 \ 1.00$ 1.00 0.28 1.00 0.46 0.41 1.00 0.16 0.22 0.24 1.00 0.35 0.15 0.35 0.20 1.00 0.34 0.29 0.38 0.27 0.25 1.00 -.13 -.16 -.20 -.10 -.15 -.04 1.00 0.61 0.15 0.35 0.15 0.43 0.33 -.13 1.00 0.36 0.08 0.33 0.11 0.27 0.20 -.14 0.46 1.00 0.42 0.12 0.29 0.18 0.20 0.25 -.07 0.39 0.32 1.00  $0.25 \ 0.47 \ 0.48 \ 0.20 \ 0.38 \ 0.37 \ -.14 \ 0.30 \ 0.27 \ 0.25 \ 1.00$  $0.04 - .08 \ 0.01 - .15 - .03 - .07 - .15 \ 0.11 \ 0.01 - .16 \ 0.03 \ 1.00$ END DATA

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# APPENDIX "C"

The Canadian Forces Conditions of Service Questionnaire

## **PROTECTED B (When Completed)**

# **CANADIAN FORCES CONDITIONS OF SERVICE QUESTIONNAIRE**

#### Message to Survey Respondents

As the senior personnel authority in the CE. It is important for me to know now our policies and programmes are working. There are a number of methods for determining this, and they include, among others, asking for input from command, base and unit authorities, and immediate supervisors. This Conditions of Service Questionnaire provides a more direct method in that it permits you, the service member, to express your views directly and in a jorn, that will allow detailed analysis.

We go the CF belong to a changing organization in which policies and programmes must be developed. amended or deleted as conditions, needs, and requirements change. To the greatest extent possible, and within a constrained budget, we are attempting to maintain human resource policies, programmes, and services that ensure a high level of morale and well-being of our service members and, where applicable, their families.

In order to assist in this endeavour. I ask that you take the time to carefully respond to the items in this questionnaire, so that we might better assess how well your needs are being met and take appropriate action a here required.

Thank you for your cooperation.

P.G. Addy

Lieutenant-General Assistant Deputy Minister (Personnel)

**Canadian Forces Personnel Applied Research Unit** Suite 600, 4900 Yonge Street Willowdale. Ontario M2N 6B7

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Trans-Cases" by NCS MUD4540.32\*



PROTECTED B (When Completed)

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#### Introduction

The Canadian Forces Conditions of Service Questionnaire has been designed to provide CF members with the opportunity to express their views regarding the quantity, quality and equity of a variety of conditions of service (for example, pay and allowances, benefits and promotion) which affect them and their families. Your input is estremely valuable in identifying, assessing and bringing to light those issues which are important to you, and which may require policy or procedural changes.

You have been selected, as part of a random sample of service members, to participate in this survey. For the results to be truly representative of the CF, it is important that each questionnaire be completed. This is an anonymous survey; therefore, you may be assured of complete confidentiality. Please do not write your name or your service number anywhere on the questionnaire. The data collected will be analyzed by the Canadian Forces Personnel Applied Research Unit (CFPARU) and the results will be made available for use by NDHQ and Commands.

Thank you for your co-operation.

#### **General Instructions**

This is not a test. There are no right or wrong answers. It is important, however, that your answers reflect, as accurately as possible, your opinions and experiences. In some cases, you may feel that the question does not apply to you. Remember, however, that we want to know about your knowledge and opinions regarding CF policies, as well as those policies which have affected you personally. When you answer the questions, please follow these three steps:

- Read each question carefully. When there are several responses provided, read all of the choices available before selecting your answer.
- 2. Record your answer with an HB pencil. Completely blacken the oval corresponding to your response. Should you wish to change your answer, erase completely the pencil marking and then blacken your revised response. Do not put any unnecessary marks on the questionnaire.

# EXAMPLES

RIGHT WRONG OOOG

3. Once you have completed the questionnaire, please follow the instructions at the end.

## **SECTION 1 - Overall Satisfaction**

We would first like to ask several questions related to your general level of satisfaction with life in the CF.

1.	Generally, how satisfied are you overall with the following? a. life in the CF b. your CF career c. your present MOC d. your current unit e. your current job f. your present geographical location	Ven Setified 000000	Sauded 0000000	Neither Satisfied Nor Dissatisfied O O O O O O O	Dissetiatiet OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	l'en Dissettidied OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	20100000
\$	Considering your CF career as a whole, how satisfied are you with the following? a. the variety b. the challenge c. the responsibility d. the sense of soventure e. travel opportunities f. skills and training sequired g. the security it offers	· · · · · · · · · · · · · · · · · · ·	Sectisfied 000000000000000000000000000000000000	Neither Satiafied Nor Dissettiafied OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	Dimetiaded OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	Very Dissolition OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	Det 1000000000000000000000000000000000000
	How do you think your life in the CF compares with that of your civilian friends?	Much Better Taur Mosa C	Than Nos:	Neither Better Nor Rosso Thus Nost C	Nary Than Mart O	Mark Now Thus Now O	Dost Noon C

4.	Think of the CF as an employer, overall, how satisfied are you with the CF as an organization for which to work?	Ven SaiuSed O	Satusfied O	Neither Satisfied Nor Dimetisfied	Pusstafied	Virr Disessibled O	Dont Escur O
<b>S</b> .	In response to the following issues, how do you feel about the CF as an organization for which to work? The CF, in general	Sursagiy Agree	Apre	Neither Agreo Ner Disagree	Disagree	Strengty Diagree	Dua't Enter
	<ul> <li>a. provides the kind of leadership I expect.</li> <li>b. instills a sense of pride in wearing the uniform.</li> <li>c. has goals with which I can identify.</li> <li>d. provides the discipline I expect.</li> <li>e. looks after the welfare of ita members.</li> <li>f. keeps me informed of important policies and events.</li> <li>g. has espirit de corps.</li> <li>h. can effectively defend Canada if/when necessary.</li> <li>i. is existing.</li> <li>j. is challenging</li> <li>k. has policies that are applied fairly across the CF.</li> <li>l. meets my expectations.</li> </ul>	,000000000000	,0000000000000	000000000000	000000000000	0000000000000	000000000000000000000000000000000000000

# **SECTION 2 - Satisfaction with Specific CF Policies**

The CF is an organization unique from other public service departments in terms of the demands it places upon service members and their families. It has long been recognized that the quality, quantity and equity of CF policies have an impact on the morale and well-being of its members. We would like to know how you feel about a variety of CF policies which may affect you and your family. Even if the policies and procedures do not affect you directly, please reply on the basis of your knowledge or opinion.

### **Compensation and Benefits**

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by the CF? a. annual salary b. pay incentives c. specialist pay d. annual leave entitlement e. leave without pay (LWOP) f. maternity leave entitlement g. compassionate leave entitlement h. accommodation assistance allowance (AAA: i. posting allowance j. separation expense allowance k. clothing upkeep allowance k. clothing upkeep allowance n. pension benefits o. supplementary death benefits (SDB) p. service income security insurance plan (SISIP) q. house hunting trip (HHT) r. environmental allowances s. unemployment insurance contributions (UIC) t. dependents' dental plan benefits u. CF relocation service (ERS)	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
s. unemployment insurance contributions (UIC) t. dependents' dental plan benefits u. CF relocation service (ERS)	000	000	000	000	000	000

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	enveloe (military or civiliae)	quitable assessment of individual performance.	promotion than those who are unlingual.	e Billingen han han bern bister annathening for	members about career matters, or matters related to	porting members. c. Carner managers are accessible for discussion with	d. Cover managers consider personal direumstances, posting preferences, and career expectations when	a. Suitident training in writing PERs is given to	o, no permeture group and an any analysis which it comes to promotion.	and merit board) promotes those who are most	<ol> <li>With regard to carner musagement, how do you feel about the following?</li> <li>In means the CF nervonal evaluation system (PER)</li> </ol>		<ul> <li>.1. selection process</li> <li>other (please specify)</li> </ul>	r. occupational transfer (UI)	i sie availability	q. post graduate training program · PGTP ·	p. commissioning from the ranks plan (CFRP)	i avaliability	1 avauatury 1: selection process 1: selection process	n. university training plan - nen-commissioned members (TPNCM)	i. selection process	m., n-service officer candidate training plan (OCTP)	i. and occupation transfer program LUFF	2 Litness of postings	1. LATKES program	BE. IE. IPS) h. specialist officer career structure	<ul> <li>iii availability</li> <li>your promotion prospects</li> <li>officer non-commissioned member career structure</li> </ul>	e. chrent contracting	(i) fairness (ii) effectiveness	<ul> <li>(1): the form mean</li> <li>c. recognition of individual merit</li> <li>d. the merit board process</li> </ul>	i. importance pisced on it	it fairness	a. the promotion system	i, trenerally, now solution are you with the following aspects of coreer management in the CP7	Career Management
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n nutrition counselling a other (picture specify)	q. Lanas outers : rastery of prods : :::::::::::::::::::::::::::::::::::	o. financial counselling p. religious services	L family support programs L second career assistance (SCAN) m alcohol rehabilitation course (ARC)	<ul> <li>availability of dependant educational facilities</li> <li>availability of dependent educational facilities in official language desired</li> </ul>	iv) sizes (v)) quantity of issue (vii) replacement	iù practicality iv, quality	<ul> <li>h. CF uniforms, in general</li> <li>i) comfort</li> <li>(ii) design</li> </ul>	<ul> <li>i) scalability</li> <li>(ii) accessibility (hours of operation)</li> <li>(iii) quality</li> </ul>	<ul> <li>arcessibility hours of operation</li> <li>arcessibility hours of operation</li> <li>a quality</li> <li>a submit services annotated by claims, pay offices.</li> </ul>	- f. administrative services provided by orderly rooms.	in quality	: quality :: quality in: confidentiality	if accessibility nours of operations	c. recreational facilities	n cost	- usi rii mintenance	i of the support services provided by the CET	Support Services 11. In general, how satisfied are you with each	<ul> <li>a. number of honours and awards available</li> <li>b. types of honours and awards available</li> <li>c. how they are awarded</li> <li>d. qualification requirements</li> <li>e. fairness in nonunations</li> </ul>	10. How satisfied are you with the following aspects of the honours and awards offered by the CF?	a. enforcement of regulations b. powers of punishment c. consistency of application of discipline d. furness of application of discipline e. Summary Trial procedures f. Courts Martial procedures	9. How satisfied are you with the following aspects of military discipline?
Boi	000	000	0000	0 0	000	00	00	<b>00</b> 0	000	)	00	000	00	0 1	000	000)	Surisfied	ŝ	00000	Ver	000000	Very Sambet
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			TTT		TH	Π	III	TIT	III		Π		<b>III</b>	111					TITT	ļ		

Human and Charter of Rights Issues II. In general, how estimated are you with CF policies provedures related to each of the following issues a personal discrimination b personal discrimination c sexual discrimination c sexual aventation c sexual aventati	<ul> <li>provided by the CF are available in the difficial ingrasge of your choice (that is, English or Freeder Green and Training</li> <li>14. In general, how satisfied are you with each of the following aspects of education and freining that you have received or is available within the CF?</li> <li>a. MOC training</li> <li>b. each dinature for the sealable within the CF?</li> <li>b. each dinature for the process for CFC. block course:</li> <li>a. professional development courses (afficer NCM)</li> <li>b. sealability</li> <li>c. estability</li> <li>c. estability</li> <li>c. estability</li> <li>d. man of filer NCM development courses (example CFSS, JLC)</li> <li>c. estability</li> <li>e. sealability</li> <li>e. seala</li></ul>	<ul> <li>12. With regard to the following support errifers, to what extent do you agree or disagree with</li> <li>a. the provision of day care easing the provision of mess facilities c. voluntary mess membership d computery mess membership d computiony mess membership e the provision of an all ranks social centre f. the expansion of the CF Personnel Newsletter to provide more personnel policy information</li> <li>13. How satisfied are you that the support services</li> </ul>
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<ul> <li>15. Continued</li> <li>15. Continued</li> <li>1. common-law relationships</li> <li>1. computages</li> <li>1. computages</li> <li>1. computager</li> <li>1. computager</li> <li>1. computager</li> <li>1. computager</li> <li>1. computager</li> <li>1. computager</li> <li>2. computager</li> <li>3. content age (CRA)</li> <li>3. content age in the content age (CRA)</li> <li>3. content age in the conten</li></ul>	Effects of military career on family 16. In general, how much have the following aspects of family life been affected by your military career? a family life in general b spousal partner relationships c parentchild relationships d spouse is or partner's career tmilitary or civilian' e spouse is or partner's career tmilitary or civilian' f enter fulle c operations in hie c of the contained c other contained c other pour own home c' firing where you want to five c others puester of the	17. Within the past 12 months, how many doys did your military service require you to be away from your primary residence? Include operational requirements incremental staff and TD but not courses. Now about your spouse, including common-iaw spou	<ol> <li>Is your spouse a military member?</li> <li>if YES, please skip question 19 and go to fastion 20</li> <li>if NO science internation 19</li> </ol>	<ul> <li>A. W. Pictor unsated question 12</li> <li>C Does not apply. I have no spouse</li> <li><i>Please go to question 22.1</i></li> <li>19. Does your spouse have a civilian job/career?</li> </ul>	20. My spouse is supportive of my military career.	21. My spouse would prefer that <b>f</b> be a civilian.

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your present job: generally how satisfied are you with the following? The a. support you receive b. legalty you receive c. respect you receive	<ul> <li>bow satisfied are you with the following:</li> <li>O Does not apply, I have no subordinates (Flease go to question 25.)</li> <li>Their a. technical abilities b. communication to the CF c. loyalty to the CF d. communication with you asypport for your rank f. respect for your position b. standards of performance i. training j. acceptance of direction</li> <li>6. Consider your relationships with your peers in</li> </ul>	<ul> <li>Working Relationships</li> <li>23. Consider your relationship with your current <i>immediate superior</i>, generally, how satisfied are you with the following?</li> <li>His her <ul> <li>a. technical abilities</li> <li>a. technical abilities</li> <li>b. accepts advice.</li> <li>c. encourages teamwork.</li> <li>d. provides feedback on your performance.</li> <li>e. encourages communication.</li> <li>f. provides leadership.</li> <li>encourages loyalty to the CF.</li> <li>t. recognizes your performance.</li> <li>is supportive.</li> <li>is supportive.</li> <li>k. matintains high standards of performance.</li> </ul> </li> <li>4. Consider your relationship with your</li> </ul>	Another important part of this study is to learn present job. Present Employment Consider your present job, hew satisfied are you with the following aspects? c. responsibility c. responsibility c. excitement f. level of airess c. defined objectives h. supervision received is sense of accomplishment is opportunities for decision-making	SECTION 3 - Satisfaction With En
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Working Conditions							
26. Consider your present working conditions, how satisfied are you with the following? (Choose either the static setting or the operational setting, whichever is applicable to your present employment.)	Vero		Neither Setleffet Ner		Vert	Dicto t	
STATIC SETTING (ie. base, headquarters) a. availability of equipment b. quality of equipment c. working space d. lighting e. cleanliness f. washroom facilities g. privacy n. safety in the work place	Set is Set	Sector 000000000	Bindidiat 000000000	Disectedice 000000000000000000000000000000000000	Displicited 000000000	00000000	
<ul> <li>h. healthy environment</li> <li>OPERATIONAL SETTING</li> <li>tie. unit capable of sea, land or air deployment;</li> <li>a. availability of equipment</li> <li>b. quality of equipment</li> <li>c. writking space</li> <li>d. washroom tachibles</li> <li>c. the under of training for the sea</li> <li>f. privacy</li> <li>g. safety in the work place</li> <li>h. healthy environment</li> </ul>	00000000	00000000	00000000	00000000	00000000	00000000	
Hours of Work 27. Consider your present position, how satisfied are you with the number of hours that you work per week?	Very Settafied	šetistā <del>ro</del> T	Neither Satisfied Nor Disastatico	Dissatisfied	Very Dissestingfeed	Don't Kaow	
STATIC SETTING (ie. base, headquarters) The following four questions refer to non-operational employment. It does not include exercises or other operational deployment. 28. Within the past 12 months, how many hours per week on average did you work?	35-39 hours O	t0-14 boars C	65-63 Jours C	50-54 kours C	55-58 boars C	ft soure er sore C	
29. Within the past 12 months, how many hours per week on average did you work that were above your regularly scheduled none hours as established by your unit?	i-S hours O	6 IQ kours O	li-18 kosre O	is și errod O	fi-15 been O	H kours or sors O	
<ul> <li>So. Considering your answer to question 29, how often were the overtime hours worked on weekends? (Please answer a, b, and c.)</li> <li>a. both Saturday and Sunday</li> <li>b. Saturday only</li> <li>c. Sunday only</li> </ul>	1 2 000	17 17 000	<b>1 1000</b>	23 430 000	1612 1988 000		
31. Within the past 12 months, how many compensatory days off did you receive for the extra time you worked? (Do not include annual leave, statutory holidays, weekends or other regularly scheduled days off.)	14 ձոր Օ	618 dars C	11-11 6473 O	(6-59 days O	11-55 4139 O	<b>35 deņis</b> se saar O	
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	OP He	ERATIONAL :	SETTING af ses. las	d or air deploym	ent;			_				
		e following for mations: that i	ur questio is. exercis	ns refer to emplo es or operational	ymen deple	it at s oyme	es (away from nt. It does not	home p include	ort), in the time spent	Deid, or al on a static	r : setting.	
-	32.	Within the pe deployed in e	ist 12 mon	ths, have you be other operation	en s?	Ϋ́εя Ο	‰ O		-		-	
111.		tif YES, please (if NO, please s	answer qu kip to ques	ention <b>s 33, 34 and</b> 3 tion 36)	35)							
	<b>5</b> 5.	Within the pa you deployed	st 12 mon on exerci	ihs, how many da se or other opera	ys we tions:	re !						
		1-30 days 31-60 days 61-90 days 91-120 days	0000	121-150 days 151-180 days 181-210 days 211-240 days	0000		241-270 days 271-300 days 301-330 days 331-365 days	0000				
	34.	Within the pa	ist 12 mon	ths, how many h	0 <b>475</b>		35-3*	****	45-49	50-54	55-59	6 bours
		per week on a	iverage di	d you work?			bours O	hugen O	50475	Doars	nours O	0
		(Default daty		ot <b>Energ</b> Antika		-						1
_	<b>35</b> .	How many co receive for th (Do not inclu- holidays, wee scheduled da	mpensato le extra til de annual lekends or ys off.)	ry days off did yo ne you worked? leave, statutory other regularly	U	20 <b>3</b> 4	i-\$ days C	6-10 days O	11-15 days O	16-20 daya O	21-23 days O	26 days or store
-						Yes	No					
-	36.	Do you perfor	rm shift w	ork?		0	0					
		uf YES, please uf NO, please s	answer que kip questio	istion 37+ n 37 and go to quei	stion 3	5.						
-	<b>\$</b> 7.	Within the pa your regulari require you to	st 12 mon ly schedul o work on	ths, how aften di ed shift work a Saturday, liday? Count and	đ			810		78 60	B1 65	<b>x</b>
		day worked a	s one. (De	not include	- 68.	pope	days	daya	days.	deys	days	of gold
		exercises or a	perstion	deploymenta.)		0	0	0	0	0	0	0
	S. Ni Pl	ECTION est, we are in ease answer	4 - Cai terested the follo	eer Intenti in your future p wing.	ions stans	i with	regard to m	oking ti	he CF a ca	reer.		
ゴ				<b>.</b> . <b>.</b> .					Seither			
	55.	What are your next two year	r career is 187	tentions within	the		Highly Linely	Likely	Likely Nor Unlikely	Unlikely	Highly Unlikely	Don't Know
		b. I intend to st	ay in the Ci	within the next to	nd ver	<b>rs</b> or (		0	0	0	0	0
		the end of m c. I intend to se	y current c rek civilian	employment with	service In the	r Dext	2	<b>C</b>	<b>C</b>	C	0	<u> </u>
		d. I would acce	pt the force	reduction program	n (FRI	Prif	0	0	0	0	0	0
٦		othered.					0	0	0	0	0	0
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<b>59</b> .	Listed below are to number of aspects related to military life. Please show the extent to which each of them will influence your decision to remain or leave the CF.	Strong Influence Te Remain	Moderate Influence To Remain	Not As Influence To Bomain Or Louve	Moderate Influence To Lauve	Strong Safurance To Lasve	Doos Net Apply
	a. the CF lifestyle b. security of employment c. job satisfaction	000	000	000	000	000	000
	d. job workload e. job challenge	00	00	00	ŏŏ	00	ğ
	L esprit de corps -> - g. military discipline	00	Ö	Õ	Ö	Ö	ē
	h. stability of family life i. spouse a (partner a) job/career	00	00	8	00	8	8
	j. spouse's (partner's) and/or children's education k. pay and benefits	00	00	00	8	8 S	8
	L. support services m. posting location	Ő	00	00	00	00	8 S
	n. accommodation o. public awareness of CF	ŏ	000	Ö	00	00	00
	q. home ownership	ŏ	DC DC	8	8	8	ğ
		Mush	<b>6</b>	Neither	**	Much	
<b>4</b> 0.	How would you describe your quality of life in	Better Than	better Than	Better Nor Worse Than Constant of	Worke This	Worse Than	Dun t
	the CF in relation to what you believe exists in civilian life?		Cumer			O	

Lastly, we would like to ask some questions about yourself to help us interpret the results of this questionnaire. This information will be grouped into categories and only grouped information will be used.



51. In what province or territory of Canada did you initially join the CF? Newfoundland O Saskatchewan	
	~
Nova ScotiaOAlbertaNew BrunswickOBritish ColumbiaPrince Edward IslandOYukonQuebecONorth West TerritoriesOntarioOOutside CanadaManitobaOV	00000

If you have any comments to make on any of the issues raised in this question name or on the questionnaire itself, please use the space below.

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## **Final Instructions**

You have now completed the Canadian Forces Conditions of Service Questionnaire. Please insert the questionnaire into the envelope provided; seal the envelope and return it to the survey administrator.

#### THANK YOU FOR YOUR CO-OPERATION AND ASSISTANCE.