

IT PROJECT MANAGERS'JOB SATISFACTION IN ABU DHABI GOVERNMENT ENTITIES



By

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ABSTRACT

This paper investigates the current level of job satisfaction for IT Project Managers in Abu Dhabi Government Entities (ADGEs) based on Minnesota Satisfaction Questionnaire. The paper also investigates the key factors that influence IT Project Managers job satisfaction and validates whether demographic factors influence their job satisfaction. Thirty six Entities with 97 respondents participated in the study. Findings from the study suggest that IT Project Managers in ADGEs are satisfied with their job. With the exception of education level, demographic factors do not influence IT Project Managers' job satisfaction and all factors identified in literature review influence job satisfaction for IT Project Managers in ADGEs. The findings of this study are particularly useful to ADGEs HR Departments and policy makers to understand the current levels of job satisfaction and provide them with an insight on what areas they should improve or maintain to increase IT Project Managers satisfaction.

تبحث هذه الدراسة في المستوى الحالي من الرضا الوظيفي لمدراء مشاريع تقنية المعلومات في الجهات الحكومية في أبوظبي على أساس استبيان رضا مينيسوتا المعروف . تتحقق الدراسة أيضا عن العوامل الرئيسية التي تؤثر على الرضا الوظيفي مدراء المشاريع في تكنولوجيا المعلومات و بالتحقق من صحة ما إذا كانت العوامل الديمغرافية تؤثر رضاهم الوظيفي . شارك سنة وثلاثين جهة مع 97 من المشاركين في الدراسة. نتائج الدراسة تشير إلى أن مدراء المشايع في تشرك سنة وثلاثين جهة مع 97 من المشاركين في الدراسة. نتائج الدراسة تشير إلى أن مدراء المشايع في تشارك سنة وثلاثين جهة مع 97 من المشاركين في الدراسة. نتائج الدراسة تشير إلى أن مدراء المشايع لتقنية المعلومات في الهيئات الحكومية في أبوظبي راضين عن وظائفهم. باستثناء مستوى التعليم ، فإن المشايع لتقنية المعلومات في الهيئات الحكومية في أبوظبي راضين عن وظائفهم. باستثناء مستوى التعليم ، فإن مدراء المشايع لتقنية المعلومات في الهيئات الحكومية في أبوظبي راضين عن وظائفهم. باستثناء مستوى التعليم ، فإن موامل الديموغرافية لا تؤثر على الرضا الوظيفي لمدراء المشاريع في تكنولوجيا المعلومات و جميع العوامل التي تم تحديدها في مراجعة الدراء المشاريع في تكنولوجيا المعلومات و جميع العوامل التي مع مراجعة الأدبيات تؤثر على الرضا الوظيفي لمدراء المشاريع في تكنولوجيا المعلومات و جميع العوامل التي تم تحديدها في مراجعة الأدبيات تؤثر على الرضا الوظيفي لمدراء المشاريع في تقنية المعلومات في الهيئات الحكومية في أبوظبي . نتائج هذه الدراسة مفيدة بشكل خاص إلى الهيئات الحكومية في أبوظبي تحديدا بي مراجعة الأوطياي الهيئات الحكومية في أبوظبي . نتائج هذه الدراسة مفيدة بشكل خاص إلى الهيئات الحكومية في أبوظبي تحديدا بي ماليولية و أبوظبي . نتائج هذه الدراسة مفيدة بشكل خاص إلى الهيئات الحكومية في أبوظبي تحديدا بي ما معلومات في الهوارد الموادي في معلومات في الموارد البشرية و في أبوظبي . نتائج هذه الدراسة مفيدة بشكل خاص إلى الهيئات الحكومية في أبوظبي تحديدا بي ما مي الموارد الموادية من الرضا الوظيفي وتوفر لهم نظرة ثاقبة على ما هي المجالات التي ينبغي أن تحسن وتحافظ رضا مدراء مشاريع تكنولوجيا المعلومات.

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ATTESTATION

I understand the nature of plagiarism, and I am aware of the University's policy on this .I certify that this dissertation reports original work by me during my University project except for the survey which was developed as follows:

- **Part 2**: Factors influencing job satisfaction: was created based on literature review
- **Part 3**: MSQ Job Satisfaction dimensions: was adopted from Minnesota Satisfaction Survey short form from MSQ website:

Signature

Date

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LIST OF ABBREVIATIONS

ADGE: Abu Dhabi Government Entity CIO: Chief Information Officer CRM: Customer Relationship Management GSEC: General Secretariat of the Executive Council MSQ: Minnesota Satisfaction Questionnaire PM: Project Manager UAE: United Arab Emirates

CHAPTER 1 :

INTRODUCTION

I. Background of the problem

The significant pace of changes in the world we are living in today is among the top challenges faced by organizations senior management. Customer and citizen expectations are increasingly changing, competition among organizations is becoming tougher and regulations and government plans are also increasingly changing. This has put a lot of pressure on the CEOs to quickly find ways to cope up with these changes for survival. In fact strategic plans that used cover a span of years have been revised to cover few years, if not months.

While all organizations are faced with changes in their environment, Information Technology service providers and departments have faced this problem for several years and the trend continues to be worse. Changes in technology trends and business continuous demand for better IT solutions continues to be among the top items on CIOs agenda. Information Technology is playing a critical role in helping organizations achieve their strategic objectives and in many cases acts as a competitive advantage for many of them. Hurley and Schaumann (1997) claim that information technology has been publicized as a driver for productivity and has received approximately 40% of all capital investment in the developed world as a result. According to Whittaker, (1999) \$ 250 billion are spent on IT application development each year in the USA alone. With the continual increase in the managerial use and dependence on information technology as a means to increase efficiency and effectiveness of government agencies (Rosacker and Rosacker, 2010) CIOs in government organizations are no longer an exception. Rosacker and Rosacker, 2010 also emphasize that Information Technology is significantly utilized and valued by public sector due to the large amount of

financial resources allocated to IT projects. For example, Gross, 2009 cited in (Rosacker and Rosacker, 2010) reported that the US federal government spent almost 76 billion dollars on IT in 2009. This is also evident from increased e-government and other governmental IT initiatives in Abu Dhabi.

In fact most of the changes made in today's organizations are either directly related to IT or indirectly have an IT component. These range from improving or redesigning processes, automating manual tasks, improving customer experience and so many others. To effectively and efficiently introduce, implement and manage changes in organizations, especially IT changes, effective project management is desperately needed. The trend of moving from in-house built small solutions to implementation of organization-wide IT solutions by external parties has made IT projects very risky and crucial in the board room. This has also led to the need for good project managers to manage IT projects. Failure to have effective project management will definitely lead to project failure. Since project managers contribute, if not playing a key role, to the success of any project yet employee job satisfaction leads to employee performance, this study investigates job satisfaction for IT Project Managers in Abu Dhabi Government Entities.

II. Statement of the problem

Even though project success depends on many different factors, it's the author's assumption that project managers are among the key success factors for the project. Even though job satisfaction for different professionals has been surveyed, job satisfaction surveys for project managers has not been given much attention based on the literature. In fact, the author was not able to find a single research conducted on IT project managers job satisfaction. This might be the reason why many IT projects fail. The purpose of this research is therefore to survey and assess job satisfaction for IT Project Managers in Abu Dhabi Government Entities (ADGEs). Since employee job satisfaction is a key driver to their performance,

assessing IT project managers' job satisfaction is of key importance to ensure good project delivery.

III. Research Question

"What is the current job satisfaction level for IT Project Managers in Abu Dhabi Government Entities (ADGEs)?"

IV. Purpose Statement and Objective of the Study

The purpose of this study is to investigate the current level of job satisfaction for IT Project Managers in Abu Dhabi Government Entities. It also tries to investigate the key factors that influence job satisfaction for IT project managers in ADGEs. In addition, this study also compares the level of job satisfaction with particular demographic variables. This chapter presents the research questions, sampling and survey procedures and statistical methods used to analyse data. The researcher attempts to answer the following research sub questions:

- What is the overall job satisfaction level of IT Project Managers in Abu Dhabi Government Entities?
- What is the level of ADGEs IT Project Managers job satisfaction in regard to each of the 20 dimensions of job satisfaction based on Minnesota Satisfaction Questionnaire (MSQ)?
- Do demographic factors affect the job satisfaction of ADGEs IT Project Managers?
- What are the key factors that influence ADGEs IT project managers job satisfaction?

V. Significance of this study

This study is of a key importance for both organizations and academicians. It will help ADGEs policy makers and HR managers to understand the current levels of job satisfaction across Abu Dhabi Government, provide them with an insight on what areas or job satisfaction factors for IT project managers they should improve or maintain to increase their IT project managers satisfaction. It will also provide other organizations within the UAE an understanding of the factors that drive their PMs satisfaction. The study will also help potential students who are planning to pursue a career in IT project management in Abu Dhabi to understand the nature of the job hence helping them in taking informed career decisions.

Due to the very limited, if not none, academic research on IT Project Managers job satisfaction this research will act as a starting point for other researchers to build on and explore IT Project Managers Satisfaction factors internationally and in other countries.

Hypothesis 1 a (Null Hypothesis): IT Project Managers in Abu Dhabi Government Entities are satisfied with their jobs

Hypothesis 1 b (Alternate Hypothesis): IT Project Managers in Abu Dhabi Government Entities are not satisfied with their jobs.

Hypothesis 2 a (Null Hypothesis): There is a relationship between ADGEs IT Project Managers' demographic factors (age, gender and years of experience) and their job satisfaction

Hypothesis 2 b (Alternate Hypothesis): There is no relationship between ADGEs IT Project Managers' demographic factors (age, gender and years of experience) and their job satisfaction.

CHAPTER 2:

THE LITERATURE REVIEW

I. Job Satisfaction Defined

Job satisfaction has been defined differently by scholars. Job satisfaction definitions can be generally categorized based on employee attitudes towards the job ((Oshagbemi, 1999), (Falkenburg, 2007), (Martins and Proenca, 2012) and many others) or based on employee expectations from the job.

The most commonly cited definition of job satisfaction ((Oshagbemi, 1999), (Alanya, 2011), (Turkyilmaz et. al, 2011) and (Davis, 2004)) based on attitudes is by Locke (1976) cited in (Smith et al., 2011) who defines job satisfaction as ``a pleasurable or positive emotional state, resulting from the appraisal of one's job experiences". Falkenburg, (2007) also defines job satisfaction as "an emotional state of mind that reflects an affective reaction to the job and the work situation".

Scholars that look at job satisfaction from expectations perspective have also defined it differently. For example Turkyilmaz et. al, (2011) defines employee job satisfaction as "expectations of the employee about the workplace and his attitudes forward his job". Fisher, (2003) also defines job satisfaction, based on expectations, as "a fairly stable evaluation of how the job meets the employee's needs, wants, or expectations". Job satisfaction has also been defined as "an index of preference for the experienced job against outside opportunities conditional on information available at time" (Le´vy-Garboua and Montmarquette, 2004 cited in (Turkyilmaz et. al, 2011)).

II. Importance and Benefits of Job Satisfaction

Job satisfaction is among the most researched areas in business and management literature (Oshagbemi, 1999). It is also referred to as one of the best-researched concepts in work (Davis, 2004). One might attribute the high interest in researching this subject to the anticipated end results and benefits that job satisfaction can yield for both employees and the organizations.

For employees, job satisfaction has relevance to their physical, mental and health well-being since they spend a large part of their lives at work according to Oshagbemi (1999). He therefore concludes that understanding the factors that contribute to employee job satisfaction will lead to improving their well-being. Job satisfaction also has implications on employee life satisfaction (Judge and Hulin, 1993 cited in (Martins and Proenca, 2012)) and strongly influences their psychological distress (Chen et al, 2006).

Job satisfaction also has a lot to offer for organizations in terms of benefits. For example, it can contribute to the effectiveness of the organization. Jabnoun and Fook, (2001) found out in their study that schools with more satisfied teachers were more effective than those with less satisfied ones.

Customer satisfaction is also positively influenced by employee job satisfaction ((Adsit, 1996) and (Heskett et al., 1997 cited in (Keiningham et. al, 2006)). In fact, Hallym and Choi (2012) found this influence to be significant in their recent study. Brown and Mitchell, (1993) also claim that job satisfaction influences client base.

Job satisfaction also leads to improved organization performance (Adsit, 1996) and (Alanya, 2011)) in different ways. In addition to the general belief that happy (satisfied) workers are more productive than dissatisfied workers (Jabnoun and Fook, 2001) and (Martins and Proenca, 2012)), job satisfaction has also been

reported to influence employee absenteeism by many researchers ((Falkenburg, 2007), (Oshagbemi, 1999) and (Pinder, 1998 cited in (Bane, 2004)). In other words, satisfied employees tend to be less absent compared to their dissatisfied counterparts. In fact, Porwoll (1980) cited in (Bane, 2004) considers dissatisfaction with work as a major determinant of employee absenteeism.

Job satisfaction also increases organizational productivity and reduces staff turnover (Oshagbemi, 1999) and (Alanya, 2011)) which in turn helps in indirectly reducing training, and recruiting costs (Jabnoun and Fook, 2001). Lee (1988) cited in (Alanya, 2011) also reported that job dissatisfaction is among the best predictors of staff turnover.

In their study, Antoncic et al., (2011) also confirmed a positive relationship between job satisfaction and intrapreneurship-growth which can also lead to firm growth. In another study, Murphy et al. (2002) also found significant correlation between employee job satisfaction and their rating of organizational citizenship.

Most important to mention is that not only does job satisfaction influence organization internal performance it has also been reported to influence organizational financial outcomes. For example, in their extensive study of thirty five companies, Schneider et al. (2003) cited in (Keiningham et. al, 2006) found that employee overall satisfaction with job security and pay significantly correlated with Return On Assets (ROA) and Earnings Per Share (EPS) in a positive manner.

III. Job Satisfaction Measurement

Due to its importance and benefits for both employees and organizations, as indicated above, both researchers and practitioners have embarked on measuring job satisfaction with different measures and approaches. Oshagbemi, (1999) concludes that job satisfaction measures can be generally categorized as single question measures, which ask a single question on overall satisfaction of the respondent, or multiple-item measures, which ask the respondents to rate different satisfaction aspects of their job. He insists that single-item measures need to be avoided due to the fact that one cannot estimate the internal consistency of single-item measures and having low reliability for psychological constructs. However, Scarpello and Campbell (1983) cited in (Oshagbemi, 1999) found single question measures to be preferable to a scale that is based on a sum of specific job facet satisfactions. Even though the researcher strongly believes that multiple item measures need to be used based on the above mentioned argument, it was decided to use both measures in the same questionnaire to cover all the bases whereby the respondents were asked first to indicate their satisfaction levels on multiple items and then finally asked to rate their overall job satisfaction.

Researchers have also used different tools and instruments to measure employee job satisfaction. The most common instruments used are Job Description Index (JDI) and Minnesota Satisfaction Questionnaire (MSQ). They both use multiple items to measure job satisfaction. The Job Description Index consists of five key scales namely nature of work, present pay, opportunities for promotion, supervision/supervisor and co-workers with a total of 90 questions (Koh and Goh, 1992). On the other hand, the MSQ has two different forms; the long form and the short form (Alanya, 2011). The long form consists of 100 items with twenty scales. MSQ short form consists of 20 items from the 100 original items, in the long form, that better represent each of the 20 original subscales (Ahmadi and Alireza, 2007).

According to Alanya (2011), MSQ short form consists of intrinsic, extrinsic and general satisfaction scales. He adds that the intrinsic and extrinsic scales are based on Herzberg two factor theory. The short form of MSQ was developed by Weiss in 1967 and uses a 5 point likert-type scale for each question (Martins and Proenca, 2012).

The researcher decided to use MSQ short form to measure job satisfaction of IT project managers in Abu Dhabi Government Entities due to its advantages. According to Martins and Proenca, (2012), MSQ has advantages like being well known and stable over the time and researchers has yielded excellent coefficient

alpha values with 20 items yielding excellent previous. They also found out in their study that MSQ short version is a valid and reliable scale for measurement of job satisfaction. Fields, (2002) cited in (Martins and Proenca, 2012) also reports that MSQ has been widely studied and validated. MSQ is also easier and faster to fill, due to the number of items (20), compared to other tools which have 90 plus items.

IV. Determinants of Job Satisfaction

Factors that lead to employee job satisfaction have also been an area of research interest and have been used to survey employee satisfaction. At a high level, Antoncic et al., (2011) suggest that these factors can be classified according to the well-known Hersberg's two-factor theory into hygienes and motivators. They add that the same factors can be classified based on relative terms where employees evaluate the fairness of exchange and base their satisfaction on comparison of the ratio of personal outcomes like pay and personal input like time and effort.

Specific factors that are commonly cited to impact job satisfaction include: pay/compensation, working conditions/working environment, ((Bodur, 2002 cited in (Turkyilmaz et. al, 2011)), (Alanya, 2011) and (Luthans, 1992 cited in (Turkyilmaz et. al, 2011)) leadership/management, relationship with co-workers/colleagues, job characteristics ((Luthans, 1992 cited in (Turkyilmaz et. al, 2011)) and (Drummond and Stoddard, 1991) and others), organizational policies (Drummond and Stoddard, 1991) and organizational structure (Alanya, 2011). Other factors reported include job promotion, organization's systems and processes (Kazemzadeh and Bashiri, 2005 cited in (Turkyilmaz et. al, 2011)).

In addition to the general factors that impact job satisfaction, some researchers have also reported that the demographic aspects of the employee can also influence their job satisfaction. For example, in their study of Malaysia teacher satisfaction, Jabnoun and Fook, (2001) found out that satisfaction tends to increase with age but there is a dip in satisfaction in the 40-50 years age group.

They therefore conclude that this age group might be the least satisfied and the most difficult to motivate. Bodur (2002) cited in (Turkyilmaz et. al, 2011) also suggests that age, gender and education level can also influence employee job satisfaction. In addition, Kazemzadeh and Bashiri (2005) cited in (Turkyilmaz et. al, 2011) also report that employee education level influences job satisfaction.

V. Job Satisfaction for Professionals

According to Jabnoun and Fook, (2001) knowledge about job satisfaction among a certain group of professionals helps in highlighting factors that contribute to their satisfaction and dissatisfaction hence helping authorities in reinforcing or modifying existing human resource management policies and practices to improve their conditions. They also add that it helps in designing an effective motivational and reward system that is relevant to the needs of the surveyed professionals hence improving their morale and pride. Knowledge about job satisfaction among a certain group of professionals can also be used for recruiting, evaluating profession quality and addressing job issues and concerns (Brown and Corless (1990). It can also be of interest to students planning to enter the same job market and to recruiters who are trying to attract candidates (Koh and Goh, 1992).

Due to the benefits and critical importance of understanding the level of job satisfaction as mentioned above, researchers have surveyed job satisfaction for different professionals in different field. For example, in the education field, Ahmad (1989) and Jabnoun and Fook, (2001) investigated teachers' job satisfaction in Malaysia. Ostroff (1992) cited in (Jabnoun and Fook, 2001) also measured high school teachers' job satisfaction in the United States and Canada. Bullen and Flamholtz (1985) cited in (Koh and Goh 1992) and Reed and Kratchman (1987) cited in (Koh and Goh, 1992), on the other hand, investigated job satisfaction for accountants. Koh and Goh, (1992) also investigated job satisfaction of government auditors. Investigation of public sector employee job satisfaction has also not been an exception. For example, Turkyilmaz et. al, (2011) studied job satisfaction of public sector employees in Turkey.

However, job satisfaction of project managers has not been a subject of much research even though they play a key role in their organization and they are key to the success of a project (Yasin et al., 1997). For example, Pinto and Kharbanda, (1996) cited in (Yasin et al., 1997) describes the key role of a project manager as

"the one person who has to make the project succeed by marshalling resources, motivating team personnel, negotiating with stakeholders, cheerleading the development process, and constantly keeping an eye on the ultimate prize: the successfully completed project".

Neal (1998) cited in (Burchell and Gilden, 2008) also emphasises that project managers should have the ability to carry out key tasks like negotiation, planning, budgeting, managing and many others. Henries and Sousa-Poza, (2005) also urge that the complexity with project manager's role increases in places with cross cultural issues like Asia.

On certain occasions project managers have also reported dissatisfaction with certain job related factors which need to be clearly surveyed and understood. For example, in their study, Yasin et al., (1997) indicate that Arab project managers were dissatisfied with some of job related factors like inability to get things done outside the organization, inability to make decisions, lack of honesty in dealing, inconsistent performance assessment and reward system and lack of clear objectives and procedures.

Like their counterparts, IT project managers have also received very little, if not none, attention, in job satisfaction literature even though they have a great influence on the success of IT projects (Day, et al., 2003). In fact, the researcher could not find a single study or research investigating job satisfaction of IT project managers. Smith et al., (2011) conclude that IT project success is both positively and negatively influenced by project manager's stress. This study seeks to study job satisfaction for IT project managers in Abu Dhabi Government Entities to assist in closing the gaps in literature.

VI. Information Technology Projects

Information Technology is playing a critical role in helping organizations achieve their strategic objectives and in many cases acts as a competitive advantage for many of them. It delivers business value through alignment of IT strategy with business, implementation of strategy through IT projects and support practices (Gooch, 1997). Hurley and Schaumann, (1997) report that information technology is considered a driver for productivity and has received approximately 40% of all capital investment in the developed world as a result. According to Whittaker, (1999) \$ 250 billion are spent on IT application development each year in the USA alone.

While all organizations are faced with significant changes in their environment, Information Technology service providers and IT departments have faced this problem for several years and the trend continues to be worse. Changes in technology trends and continuous demand for better IT solutions from business and users continues to be a challenge for CIOs. In fact most of the changes made in today's organizations are either directly or indirectly related to IT. These range from improving or redesigning processes, automating manual tasks, improving customer experience and so many others. Kuruppuarachchi, (2000) cited in (Gowan and Mathieu, 2005) also reports that change management is a major challenge for large IT projects.

Compared to other projects, Information technology projects have special characteristics that make their management very challenging according to Bryde (2013). He summarizes these characteristics as

....less tangible and less familiar than other projects; the team has a particularly diverse range of skills, experience, attitudes and expectations; the project is accompanied by significant organizational change; technological change can occur at such a pace that fundamental assumptions become obsolete mid-project; and there is a perception that the requirements, scope and benefits are difficult to define in concrete terms.

In addition to their uniqueness, IT projects also have a very poor record of failure based on literature. For example, The Standish Group (1999) cited in (Chulkov et. al, 2005) reports that projects worth 75 billion dollars were cancelled in 1998. The same study in 2001 also reported that only 28% of IT projects were completed on time and on budget and that they were 45% over their original cost, on average. LaPlante, 1995 cited in (Chulkov et. al, 2005) also reports that only 25% of IT projects are completed on time within budget. Latendresse and Chen, (2003) cited in (Standing et al., 2006) also claim that many IT projects fail to achieve their objectives. Rosacker and Rosacker, (2010) also emphasize that most of IT projects are usually described as wasteful, inefficient, mismanaged, expensive, and behind schedule. Powner, (2008, p. 1) cited in (Rosacker and Rosacker, 2010) also identified 413 IT projects worth 25.2 billion dollars which were poorly planned or poorly performing in 2008. The public sector has also not been an exception for project failure. Rosacker and Rosacker, (2010) report that too many IT projects in the public sector exceed their financial budget, take longer than expected or do not meet stakeholders requirements.

VII. Information Technology Project Management

With the above mentioned IT project issues and failures, effective IT project management is desperately needed. Gowan and Mathieu, (2005) emphasize that the increasing number of large scale IT projects like enterprise resource planning systems has required managers to develop successful project management practices. The scope of IT project management research is also expanding from software development to broader enterprise systems (Gowan and Mathieu, 2005). In fact, almost all IT implementations use some form of project management (Jurison, 1999 cited in (Rosacker and Rosacker, 2010)).

The expected speed of delivering such systems/projects is also increasing which makes IT project management more crucial and challenging. For example, Hurley and Schaumann, (1997) report that 80% of strategic systems are expected to be

delivered in less than 12 months in Australia. The trend of moving from in-house built small solutions to implementation of organization-wide IT solutions by external parties has made IT projects riskier and complex. This has also led to the need for good project managers to manage IT projects.

Failure to have effective project management will definitely lead to project failure. According to Kuruppuarachchi (2002) cited in (Gowan and Mathieu, 2005), personnel (project managers) is among the factors contributing to project success based on many researchers. He attributes this to the fact that IT project success is no longer determined by factors like budget, timeliness or technology but customer acceptance of the project. Malach-Pines, (2009) also considers measures like time, budget and specifications to be incomplete and misleading. He therefore suggests adding customer satisfaction to the assessment of project success. Standing et al., (2006) also reports that from a project manager's perspective, meeting user requirements is a very important factor to IT project success according to research. As mentioned in the previous sections of this report, employee satisfaction influences customer satisfaction. Since project success depends on customer satisfaction, one might conclude that project managers (employees) satisfaction influences project success. Another study concludes that assigning skilled project managers that use good project management practices as one of the ways to improve performance of IT project management (Standish Group International, 2001 cited in (Gowan and Mathieu, 2005)).

VIII. Information Technology Projects in Abu Dhabi Government Entities

With the continual increase in the managerial use and dependence on information technology as a means to increase efficiency and effectiveness of government agencies (Rosacker and Rosacker, 2010) CIOs in government organizations are no longer an exception. Rosacker and Rosacker, 2010 also emphasizes that Information Technology is significantly utilized and valued by public sector due to the large amount of financial resources allocated to IT projects. For example,

Gross (2009) cited in (Rosacker and Rosacker, 2010) reported that the US federal government spent almost 76 billion dollars on IT in 2009. This is also evident from increased e-government and other governmental IT initiatives in Abu Dhabi. For example, Abu Dhabi Government has implemented in the last few years key major IT solutions to improve inter-government entity transactions and provide better government to citizen solutions. These include the Abu Dhabi Government Network that provides internet connectivity to all Abu Dhabi Government Entities, Government CRM solution that supports customer relationship management across all government entities for citizens, Government Human Resource Management system that manages all HR transactions across ADGEs and Shared Government Data Centre that hosts all the key and shared applications across Abu Dhabi Entities. Managing these multi-million projects requires effective project management and of course good project managers who are satisfied with their job.

I. Research Limitation

This research has some limitations. First of all, it only focusses on project managers job satisfaction in ADGEs which can make it difficult to apply its findings nationally, internationally or even in other private organizations. In addition, it's not based on interviews which makes it difficult to clarify details of respondents' answers. The study also focuses on project managers' perception about their job satisfaction only.

RESEARCH METHODOLOGY

I. Research Methodology

The purpose of this study is to investigate the current level of job satisfaction for IT Project Managers in Abu Dhabi Government Entities. It also tries to investigate the key factors that influence job satisfaction for IT project managers in ADGEs. In addition, this study also compares the level of job satisfaction with particular demographic variables. This research is based on a descriptive design. According to Jeane, (1999) cited in (Rosacker and Rosacker, 2010), descriptive research design provides answers to questions like who, what, when, where and how regarding a particular research problem. However, she urges that descriptive research designs do not conclusively provide answers to why. This chapter presents the sampling and survey procedures and statistical methods used to analyse data.

Questionnaire development

Since questionnaires cover a big number of respondents, are less costly especially when you have a big sample and are good in getting respondents' information with low bias, the researcher decided to use a questionnaire as an instrument to collect data. The researcher developed the questionnaire based on the research questions. The following are the hypotheses that the survey questions will prove or disprove. **Hypothesis 1 a (Null Hypothesis):** IT Project Managers in Abu Dhabi Government Entities are satisfied with their jobs

Hypothesis 1 b (Alternate Hypothesis): IT Project Managers in Abu Dhabi Government Entities are not satisfied with their jobs.

Hypothesis 2 a (Null Hypothesis): There is a relationship between ADGEs IT Project Managers' demographic factors (age, gender and years of experience) and their job satisfaction

Hypothesis 2 b (Alternate Hypothesis): There is no relationship between ADGEs IT Project Managers' demographic factors (age, gender and years of experience) and their job satisfaction.

To develop the questionnaire used in this study, the researcher followed certain key steps. First of all, job satisfaction literature was read to find out the most common and reliable survey tools used by different researchers in measuring job satisfaction. Out of the two tools that are most commonly used world-wide (the job description index and short form of Minnesota Satisfaction Questionnaire), the researcher decided to adopt the MSQ short form due to ease to fill (only 20 questions) in addition to other advantages mentioned in the literature review chapter of this study. This was considered as the core section of the research. In addition to this, the researcher also investigated different research interests in job satisfaction literature and incorporated them with the questionnaire to validate them from ADGEs IT Project Managers point of view. These are the factors influencing job satisfaction and the relationship between job satisfaction and demographic factors. The questionnaire consisted of 37 questions/items which were divided into four major distinct sections.

After confirming the survey questions, it was decided to design the questionnaire using an online system (Survey Monkey) to save data collection time and effort. After the design, the questionnaire was piloted on 5 IT project managers working in one of the Abu Dhabi Government Entities to ensure that it's easy to fill and questions are clear. Pilot participants were requested to assume that the survey is final and fully fill it in without leaving any question blank. They were also encouraged to email back the researcher and provide their objective opinion on the survey and what needs to be changed. Each of the pilot respondents responded back to the researcher within 3 days that they have fully filled the survey and they did not face any difficulties or challenges in filling in the survey. After pilot confirmation, the final survey was published and tested again. For better visibility and reminding of respondents, a survey collector (special link) was created for each entity. This would enable the researcher track who has responded so far to avoid unnecessary follow-ups. To ensure that respondents provide accurate responses and feel free to provide their feedback, they were not informed that each entity had a specific collector since it was not the researcher's intention to compare satisfaction between entities. Below is a snapshot of sample of the entities and their respective collectors:

| WRM (Web Link) | OPEN | 0 responses | June 27, 2013 11:29 AM |
|-----------------------|------|--------------|------------------------|
| SCAD (Web Link) | OPEN | 2 responses | June 30, 2013 3:50 PM |
| GSEC (Web Link) | OPEN | 3 responses | June 30, 2013 12:42 PM |
| CPC (Web Link) | OPEN | 4 responses | June 30, 2013 6:11 PM |
| DED (Web Link) | OPEN | 1 response | June 30, 2013 12:07 PM |
| DOT (Web Link) | OPEN | 1 response | July 2, 2013 11:20 AM |
| UPC (Web Link) | OPEN | 1 response | June 27, 2013 2:33 PM |
| DOF (Web Link) | OPEN | 3 responses | June 30, 2013 9:03 AM |
| EAD (Web Link) | OPEN | 1 response | June 30, 2013 10:11 AM |
| FDF (Web Link) | OPEN | 2 responses | July 3, 2013 2:55 PM |
| WRDC (Web Link) | OPEN | 1 response | June 27, 2013 2:07 PM |
| ZHO (Web Link) | OPEN | 7 responses | July 3, 2013 2:21 PM |
| ADEC (Web Link) | OPEN | 1 response | June 29, 2013 8:05 AM |
| HAAD (Web Link) | OPEN | 4 responses | June 30, 2013 10:16 AM |
| SEHA (Web Link) | OPEN | 1 response | July 3, 2013 1:37 PM |
| AAM (Web Link) | OPEN | 4 responses | July 3, 2013 9:09 AM |
| ADAA (Web Link) | OPEN | 4 responses | June 30, 2013 8:34 AM |
| ADSIC Link (Web Link) | OPEN | 2 responses | June 29, 2013 10:28 AM |
| Musanada (Web Link) | OPEN | 24 responses | June 30, 2013 2:43 PM |

Figure 1: A snapshot of entity specific survey collectors.

a. Demographics

Section one focuses on capturing the demographic information for Abu Dhabi Government Entity IT Project Managers. These include: gender, age, years of experience, educational level, nationality, position title and respondent's organization name. Figure 2 below illustrates the survey questions in Section one: Demographics.

| Survey on IT Project Managers' Job Sa | tisfaction in Abu Dhabi Government Entities - Confidential |
|--|--|
| Part One - Demographic Information | |
| 1. Gender | |
| 2. Age | |
| 3. Years of experience More than 30 years (please specify) | |
| 4. Your educational level T Other (please specify) | |
| 5. Nationality T Other (please specify) | |
| 6. Position Title | |
| 7. Organization Name |] |
| | Prev Next |

Figure 2: A snapshot of survey questions - Section one: Demographics

b. Factors Influencing ADGEs IT Project Managers Job Satisfaction

The second section consisted of factors that influence job satisfaction where respondents were asked to rate the importance of each factor using a five-point scale (1=not important, 2=somewhat important, 3=neutral, 4=important, 5= very important). The factors are (1) pay/compensation, (2) working conditions/working environment, (3) leadership/management, (4) relationship with co-workers/colleagues, (5) job characteristics (6) organizational policies (7)

organizational structure (8) job promotion and (9) organization's systems and processes. These factors were adapted from job satisfaction literature as indicated in literature review chapter of this study. Figure 3 below illustrates the survey questions in Section two:

| tp://www. surveymonkey.com /s.aspx?PREVIEW_MODE=DO_NO | T_USE_THIS_LINK_FOR_COLLECTION&sm | =pL0vr8dbJrpt367FwrJsPvNR2wKSL%2f0qRRjHX23D9IU% | 3d | | |
|--|-----------------------------------|---|------------|------------|----------------|
| Edit View Favorites Tools Help | | | | | |
| lease rate the following factors in rega | ards to their importance to | o your job satisfaction: | | | |
| Please rate the following factors in | n regards to their impor | tance to your job satisfaction: | | | |
| | Not Important | Somewhat Important | Neutral | Important | Very Important |
| Pay/compensation | 0 | 0 | \odot | \odot | \circ |
| Norking conditions/working environment | \bigcirc | 0 | \bigcirc | \odot | \bigcirc |
| _eadership/management | 0 | 0 | \bigcirc | \bigcirc | \odot |
| Relationship with co-workers/colleagues | 0 | 0 | \odot | \odot | \bigcirc |
| Job characteristic | 0 | 0 | \bigcirc | \bigcirc | \bigcirc |
| Organizational policies | 0 | 0 | \odot | \odot | \bigcirc |
| Organizational structure | 0 | 0 | \bigcirc | \bigcirc | \odot |
| Opportunity for advancement/promotion | 0 | 0 | 0 | \odot | 0 |
| Organizational systems and processes | 0 | 0 | \odot | \odot | 0 |
| | | | | | |

Powered by <u>SurveyMonkey</u> Check out our <u>sample surveys</u> and create your own now!

Figure 3: A snapshot of survey questions – section two: Factors Influencing Job Satisfaction

c. ADGEs IT Project Manager Job Satisfaction against MSQ Satisfaction Dimensions

The third section focuses on the level of ADGEs IT Project Managers job satisfaction to each of the 20 job satisfaction dimensions. This part was adopted from a revised short version of Minnesota Satisfaction Questionnaire (Weiss et al., 1967). Respondents were asked to indicate the level of their satisfaction using a five-point scale (1=not satisfied, 2=somewhat satisfied, 3=satisfied, 4=very satisfied, 5= extremely satisfied).

| urvev on IT Proiect Managers' | Job Satisfaction in Abu Dhabi Government Entities - Confidential | |
|-------------------------------|--|--|
| arrej en ri reject managere | | |

Part 3 - Level of Job Satisfaction

| 9. Please indicate the level of your satisfaction with your job towards the following: | | | | | | |
|--|-------------------|--------------|---------|-----------|----------------|--|
| | Very Dissatisfied | Dissatisfied | Neutral | Satisfied | Very Satisfied | |
| The chance to work alone on the job | 0 | 0 | 0 | 0 | 0 | |
| The chance to do different things from time to time | 0 | 0 | 0 | 0 | 0 | |
| The chance to be "somebody" in the community | 0 | 0 | 0 | 0 | 0 | |
| The chance to do things for other people | 0 | 0 | 0 | 0 | \bigcirc | |
| The chance to tell people what to do | 0 | 0 | 0 | 0 | 0 | |
| The chance to try my own methods of doing the job | 0 | 0 | 0 | 0 | 0 | |
| The chance to do something that makes use of my abilities | 0 | 0 | 0 | 0 | 0 | |
| The chances for advancement on this job | 0 | 0 | 0 | 0 | 0 | |
| Being able to keep busy all the time | 0 | 0 | 0 | 0 | 0 | |
| The competence of my supervisor in making decisions | 0 | 0 | 0 | 0 | 0 | |
| Being able to do things that don't go against my conscience | 0 | 0 | 0 | 0 | 0 | |
| The way my job provides for steady employment | \bigcirc | 0 | 0 | 0 | 0 | |
| The way company policies are put into practice | 0 | 0 | 0 | 0 | 0 | |
| The way my boss handles his/her workers | 0 | 0 | 0 | 0 | 0 | |
| The way my co-workers get along with each other | 0 | 0 | 0 | 0 | 0 | |
| My pay and the amount of work I do | 0 | 0 | 0 | 0 | 0 | |
| The freedom to use my own judgment | 0 | 0 | 0 | 0 | 0 | |
| The working conditions and environment | 0 | 0 | 0 | 0 | 0 | |
| The praise I get for doing a good job | 0 | 0 | 0 | 0 | 0 | |
| The feeling of accomplishment I get from the job | 0 | 0 | 0 | 0 | 0 | |
| | | Prev N | ext | | ê | |

Figure 4: A snapshot of survey questions – section three: Job Satisfaction against MSQ Satisfaction Dimensions

d. ADGEs IT Project Managers' Overall Job Satisfaction

The fourth and final section consisted of one question regarding overall satisfaction of the respondents with their job using a five-point scale (1=not satisfied, 2=somewhat satisfied, 3=satisfied, 4=very satisfied, 5= extremely satisfied).

| art 4 - Overall Satisfaction | | | | | |
|---|---------------------------------|--------------|---------|-----------|----------------|
| 0. Please indicate the level of your over | all satisfaction with your job: | | | | |
| | Very Dissatisfied | Dissatisfied | Neutral | Satisfied | Very Satisfied |
| Overall, I am satisfied with my job | 0 | 0 | 0 | 0 | 0 |
| | | | | | |

Figure 5: A snapshot of survey questions – section four: Overall Job Satisfaction

II. Research Design

a. Sample

The sample for this study was drawn from all Abu Dhabi Government Entities. On their website (<u>http://www.adaep.ae/ar/Pages/Default.aspx</u>) Abu Dhabi Award for Excellence in Government Performance identified 49 government entities in the Emirate of Abu Dhabi. All these entities were included in this study. The study targets IT project managers within these entities. Since there are no published statistics on how many IT project managers in Abu Dhabi Government Entities, it was difficult for the researcher to estimate the actual total number of the population but the researcher estimated on average to have two project managers per each entity making the anticipated number of the population to be 88. The table below indicates a complete list of these entities.

| No | Entity | No | Entity |
|----|---|----|-------------------------------------|
| 1 | Abu Dhabi Heritage and Culture | 29 | Abu Dhabi Judicial Department |
| | Authority | | |
| 2 | General Directorate of Residency and | 30 | ADFD |
| | Foreigners Affairs | | |
| 3 | Etihad Airways | 31 | Abu Dhabi Food Control Authority |
| 4 | Critical National Infrastructure Agency | 32 | Abu Dhabi Council for Economic |
| | | | Development |
| 5 | Abu Dhabi Tourism Authority | 33 | ADCCI |
| 6 | Abu Dhabi Sewerage Services Company | 34 | Abu Dhabi Municipality |
| 7 | Abu Dhabi Ports Company | 35 | Department of Municipal Affairs |
| 8 | Abu Dhabi Airports Company | 36 | Western Region Municipality |
| 9 | Zayed House for Islamic Culture | 37 | Statistics Center - Abu Dhabi |
| 10 | The National Rehabilitation Center | 38 | GSEC |
| 11 | The Centre for Regulation of Transport | 39 | Crown Prince Court |
| | by Hire Cars | | |
| 12 | Social Care & Minors Affairs Foundation | 40 | Department of Economy Development |
| 13 | Regulation & Supervision Bureau | 41 | Department of Transportation |
| 14 | Presidential Flight | 42 | Abu Dhabi Urban Planning Council |
| 15 | Media Zone Authority - Abu Dhabi | 43 | Department Of Finance |
| 16 | AWPR | 44 | Environment Agency - Abu Dhabi |
| 17 | Abu Dhabi Tawteen Council | 45 | Family Development Foundation |
| 18 | ТСА | 46 | Western Region Development Council |
| 19 | Higher Corporation for Specialized | 47 | Zayed Higher Organization for |
| | Economic Zones | | Humanitraian care and Special Needs |
| 20 | NMC | 48 | Abu Dhabi Education Council |
| 21 | NCEMA | 49 | Health Authority – Abu Dhabi |
| 22 | Khalifa Fund for enterprise development | 50 | Abu Dhabi Health Services |
| 23 | EIDA | 51 | Al-Ain Municipality |
| 24 | The Center of Waste Management | 52 | Abu Dhabi Accountability Authority |
| 25 | Abu Dhabi Exchange | 53 | Abu Dhabi Systems and Information |
| | | | Centre |
| 26 | Abu Dhabi Water and Electricity | 54 | Abu Dhabi General Services |
| | Authority | | |
| 27 | Abu Dhabi Sport Council | 55 | Abu Dhabi Police |
| 28 | Abu Dhabi Retirement Pensions and | | |
| | Benefits Fund | | |

Table 1: A complete list of entities approached to participate in the survey.

Out of the forty nine (49) Abu Dhabi Government Entities that were approached, thirty (30) entities participated, with a total of ninety sixty (96) IT Project Managers responding to the questionnaire. The questionnaire was distributed electronically through Department Heads in each entity.

Blank responses, or those marked with N/A were excluded from the population that was used to establish averages. This enabled the dashboard method to facilitate the visualization of a set of large and complex data sets. Color coding was used to differentiate the values. However, the calculations and assigned values on the values do not represent statistical relevance and therefore should not be used to deduce approximate values in the spread of responses.

b. Questionnaire Process

After obtaining a list of Abu Dhabi Government Entities, the researcher approached each IT head in each entity by phone to explain to them the purpose of the survey, seek their support and get their green light to participate in the survey. The phone call was then followed with an email asking IT Heads to forward the email to their respective IT project managers. The emails consisted of entity specific collector (survey link), described the study's purpose, benefit, confidentiality of responses, and urged IT heads to encourage their IT project managers to participate in the survey. The email was also accompanied with an approved letter from British University of Dubai to conduct the study. A copy of the letter can be found in appendix 1. Two weeks following the initial survey email, a follow-up email was sent to entities that had not participated reminding them of their participation. A thank you email was also sent to the entities that had already participated after two weeks. All respondents responses and data were saved online through survey monkey which was then exported into excel sheet after survey closure.

DATA ANALYSIS & RESULTS

I. Quantitative Analysis

a. Demographics

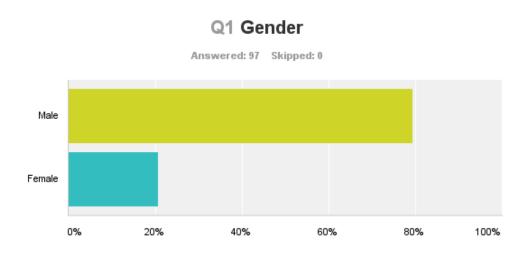
The online questionnaire was sent to project managers within fifty five (55) Abu Dhabi Government Entities out of which responses were received from 36 entities. A total of ninety seven (97) project managers from the 36 entities responded to the survey. Out of the 97 questionnaires received, four (4) questionnaires were disregarded since they only had demographic information with empty data fields for all other questions making the final number of questionnaires analyzed 93. The following is a summary of the findings from the responses of survey participants.

• Responses by Entities

Table 2:Responses by entity

| Entity | ntity No. Entity | | | |
|---|------------------|-----------------------------------|----|--|
| Abu Dhabi Heritage and Culture Authority | 0 | Abu Dhabi Judicial Department | 1 | |
| General Directorate of Residency and | 0 | ADFD | 1 | |
| Foreigners Affairs | | | | |
| Etihad Airways | 0 | Abu Dhabi Food Control Authority | 2 | |
| Critical National Infrastructure Agency | 0 | Abu Dhabi Council for Economic | 1 | |
| | | Development | | |
| Abu Dhabi Tourism Authority | 0 | ADCCI | 1 | |
| Abu Dhabi Sewerage Services Company | 0 | Abu Dhabi Municipality | 4 | |
| Abu Dhabi Ports Company | 0 | Department of Municipal Affairs | 0 | |
| Abu Dhabi Airports Company | 0 | Western Region Municipality | 0 | |
| Zayed House for Islamic Culture | 0 | Statistics Center - Abu Dhabi | 2 | |
| The National Rehabilitation Center | 2 | GSEC | 3 | |
| The Centre for Regulation of Transport by | 0 | CPC | 4 | |
| Hire Cars | | | | |
| Social Care & Minors Affairs Foundation | 0 | Department of Economy | 1 | |
| | | Development | | |
| Regulation & Supervision Bureau | 1 | Department of Transportation | 1 | |
| Presidential Flight | 0 | Abu Dhabi Urban Planning Council | 1 | |
| Media Zone Authority - Abu Dhabi | 0 | Department Of Finance | 3 | |
| AWPR | 3 | Environment Agency - Abu Dhabi | 1 | |
| Abu Dhabi Tawteen Council | 1 | Family Development Foundation | 2 | |
| ТСА | 0 | Western Region Development | 1 | |
| | | Council | | |
| Higher Corporation for Specialized | 1 | Zayed Higher Organization for | 7 | |
| Economic Zones | | Humanitraian and Special Needs | | |
| NMC | 1 | Abu Dhabi Education Council | 1 | |
| NCEMA | 3 | Health Authority – Abu Dhabi | 4 | |
| Khalifa Fund for enterprise development | 2 | Abu Dhabi Health Services | 1 | |
| EIDA | 0 | Al-Ain Municipality | 4 | |
| The Center of Waste Management | 2 | ADAA | 4 | |
| ADX | 2 | Abu Dhabi Systems and Information | 2 | |
| | | Centre | | |
| Abu Dhabi Water and Electricity Authority | 0 | Abu Dhabi General Services | 24 | |
| Abu Dhabi Sport Council | 1 | Abu Dhabi Police | | |
| Abu Dhabi Retirement Pensions and | 1 | | | |
| Benefits Fund | | | | |

Table 2 indicates responses from each entity. Out of the 55 entities, approximately 34.5% (19 entities) did not respond to the survey making the percentage response rate from entities 65.5%. From the total of 36 entities that responded, Abu Dhabi General Services had the highest respondents since 24 project managers (25%) followed by Zayed Higher Organization with 7 project managers. Most entities (17 out of 36) only had one respondent per entity.



• Responses by Gender

Figure 6:Responses by gender

Figure 6 indicates the responses of participants based on their gender. Most of the respondents were male who averaged 79% of the total respondents. Female respondents were 21% on average of the total respondents.

Responses by Age Group

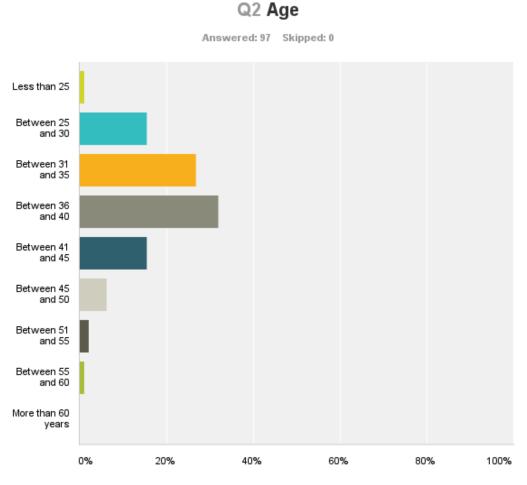


Figure 7: Responses by age group

Figure 7 indicates the responses of participants based on their age groups. The highest number of survey participants fall between 36 - 40 years age group who averaged 32% of the total number of participants followed by 31 - 35 age group who averaged 28% of the total group. Very few participants reported that they were either less than 25 years (1%) or above 51 years (3%). This implies that on average, 96% of respondents fall between 25 and 50 years.

• Responses by Year of experience

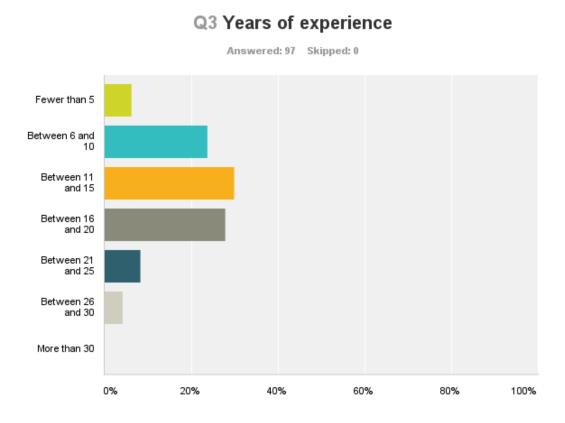


Figure 8: Years of experience

Regarding the years of work experience of ADGEs IT Project Managers, the highest number of respondents (30%) had between 11 and 15 years of experience followed by 16 - 20 years and 6 - 10 years that averaged 28% and 24% respectively. 9% of the respondents reported that they had more than 21 years of experience. Only 6% indicated that they had less than 5 years' experience.

Responses by Educational Level

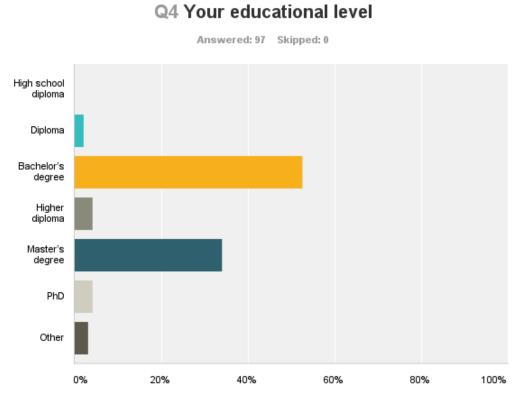


Figure 9:Responses by Educational Level

In terms of the educational level of ADGEs IT Project Managers, 53% indicated that they had a bachelor's degree followed by 33% who indicated that they had a master's degree. 4% of the respondents had a PhD. Other respondents either had a diploma, higher diploma or certificate. One can conclude that IT Project Managers in ADGEs are highly educated.

Responses by nationality

Q5 Nationality



Figure 10:Responses by Nationality

In regards to ADGEs IT project managers nationalities, there seem to be a balance between Emiratis and Non-Emiratis while hiring IT project managers in ADGEs. Based on the responses from the participants, 51% reported that they were Emiratis as opposed to 49% non-Emiratis.

• Summary

In summary, 65.5% of Abu Dhabi Government Entities participated in the survey with 97 individual IT Project Managers responding to the questionnaire. Most of the respondents were male and approximately 60% of the respondents were aged between 31 and 40 years. The highest number of respondents had between 11 and 15 years of experience. IT Project Managers in ADGEs are also highly educated since 86% of the respondents at least have a bachelor's degree. Finally, there seems to be a balance between Emirati and Non Emirati respondents.

b. Section Two: The Analysis of factors that influence job satisfaction for IT Project Managers in Abu Dhabi Government Entities.

This section deals with the second part of the questionnaire, the factors influencing job satisfaction for IT Project Managers in Abu Dhabi Government Entities, and shows first the descriptive statistics of the whole sample which includes the mean and standard deviation. It then tests whether the means are statistically different from 3, the midpoint of the 5-point Likert-type scale used in measuring responses. Having done this, the section proceeds to test if there is significant difference between the following pairs of groups of respondents using a t-test: the Male/Female and the Emirati/non-Emirati.

Table 3:One Sample Statistics for factors that influence job satsiafctionfor ADGEs IT Project Managers

| | | | Std. | Std. |
|---|----|-------|-----------|------------|
| | Ν | Mean | Deviation | Error Mean |
| Pay/compensation | 91 | 4.34* | .749 | .078 |
| Working conditions/working environment | 93 | 4.63* | .527 | .055 |
| Leadership/management | 93 | 4.63* | .547 | .057 |
| Relationship with co-workers/colleagues | 93 | 4.34* | .667 | .069 |
| Job characteristics | 93 | 4.14* | .669 | .069 |
| Organizational policies | 93 | 4.15* | .736 | .076 |
| Organizational structure | 93 | 3.98* | .847 | .088 |
| Opportunity for advancement/promotion | 93 | 4.32* | .662 | .069 |
| Organizational systems and processes | 93 | 4.23* | .662 | .069 |

*Indicates that the mean is significantly different from 3

| | Test Value = 3 | | | | | | |
|---|----------------|----|------------|------------|-------------|-----------|--|
| | | | | | 95% Co | onfidence | |
| | | | Sig. | Mean | Interval of | the | |
| | t | df | (2-tailed) | Difference | Difference | | |
| Pay/compensation | 17.083 | 90 | .000 | 1.341 | 1.18 | 1.50 | |
| Working conditions/working environment | 29.897 | 92 | .000 | 1.634 | 1.53 | 1.74 | |
| Leadership/management | 28.792 | 92 | .000 | 1.634 | 1.52 | 1.75 | |
| Relationship with co-workers/colleagues | 19.419 | 92 | .000 | 1.344 | 1.21 | 1.48 | |
| Job characteristics | 16.429 | 92 | .000 | 1.140 | 1.00 | 1.28 | |
| Organizational policies | 15.067 | 92 | .000 | 1.151 | 1.00 | 1.30 | |
| Organizational structure | 11.145 | 92 | .000 | .978 | .80 | 1.15 | |
| Opportunity for advancement/promotion | 19.266 | 92 | .000 | 1.323 | 1.19 | 1.46 | |
| Organizational systems and processes | 17.870 | 92 | .000 | 1.226 | 1.09 | 1.36 | |

Table 4:One Sample Statistics for factors that influence job satsiafctionfor ADGEs IT Project Managers

Table (3) shows the One-Sample Statistics including Means and Standard Deviations. The researcher aim is to test whether the Means in that table are significantly different from 3, the midpoint of the 5-point Likert-type scale used in measuring responses. Table (4) gives information about the value test-statistic and the significance of the differences of Means from 3. For example, all the items in the factors that influence job satisfaction measure are significantly greater than 3 (Sig. value is less than or equal to 0.05 for all of them). This indicates that the respondents, on average, agree that these items have a strong influence on their job satisfaction. One may also conclude that working conditions and leadership have the highest influence on ADGEs IT project managers job satisfaction (mean = 4.63) followed by pay/compensation and relationship with co-workers (mean = 4.34). On the other hand, even though they agree that organization structure influences their job satisfaction, they agree least with this item compared to other items (mean = 3.93). It was surprising for the researcher that pay/compensation was not considered the highest factor that influence job satisfaction as opposed to the general perception.

| | Ν | Males | Females | | |
|---|------|-------|---------|------|--|
| | М | SD | М | SD | |
| Pay/compensation | 4.40 | .753 | 4.06 | .680 | |
| Working conditions/working environment | 4.65 | .507 | 4.56 | .616 | |
| Leadership/management | 4.65 | .557 | 4.56 | .511 | |
| Relationship with co-workers/colleagues | 4.33 | .684 | 4.39 | .608 | |
| Job characteristics | 4.17 | .705 | 4.00 | .485 | |
| Organizational policies | 4.13 | .759 | 4.22 | .647 | |
| Organizational structure | 3.97 | .885 | 4.00 | .686 | |
| Opportunity for advancement/promotion | 4.27 | .664 | 4.56 | .616 | |
| Organizational systems and processes | 4.24 | .654 | 4.17 | .707 | |

Table 5: A comparison between the Means of responses of Males andFemales

Table 5 compares between means of both male and female respondents for factors that influence job satisfaction for ADGEs IT Project Managers. The 2 sample t-test carried out by the researcher reveals that there are no significant differences in the means of both groups (see Table A1 in Appendix A) as shown in the table above. This implies that in general, males and females IT project managers' factors that influence job satisfaction in Abu Dhabi Government Entities do not differ. All means, however, are greater than 3 which implies that both groups consider all the items to influence their job satisfaction. Both groups also agree that working conditions and leadership are the highest factors that influence their job satisfaction (mean = 4.65 and 4.56 for males and females respectively). Both males and females also agree that organizational structure is the least factor that influences their job satisfaction. Even though female respondents also considered job characteristics as another least factor influencing their satisfaction. Most important to mention is the fact that pay/compensation is slightly, even though not significant, ranked higher by males (mean = 4.40) than females (4.06). This seems to be in line with other research findings that male employees job satisfaction is more influenced by pay compared to females.

| | E | Emiratis | | Emiratis |
|---|------|----------|------|----------|
| | М | SD | М | SD |
| Pay/compensation | 4.25 | .781 | 4.43 | .715 |
| Working conditions/working environment | 4.63 | .532 | 4.64 | .529 |
| Leadership/management | 4.63 | .572 | 4.64 | .529 |
| Relationship with co-workers/colleagues | 4.24 | .639 | 4.45 | .686 |
| Job characteristics | 4.02 | .683 | 4.26 | .642 |
| Organizational policies | 4.09 | .694 | 4.21 | .778 |
| Organizational structure | 3.93 | .827 | 4.02 | .872 |
| Opportunity for advancement/promotion | 4.26 | .535 | 4.38 | .768 |
| Organizational systems and processes | 4.24 | .603 | 4.21 | .720 |

Table 6: A comparison between the Means of responses of Emiratis andNon-Emiratis

Table 6 compares between means of both Emirati and Non Emirati respondents for factors that influence job satisfaction for ADGEs IT Project Managers. The 2 sample t-test carried out by the researcher reveals that there are no significant differences in the means of both groups (see Table A2 in Appendix A) as shown in the table above. This implies that in general, Emirati and Non Emirati IT project managers factors that influence job satisfaction in Abu Dhabi Government Entities do not differ. All means, however, are greater than 3 which implies that both groups consider all the items to influence their job satisfaction. Overall, the means of non-Emiratis are higher than the Emiratis in all items except one "organizational systems and processes" which implies that in general non-Emiratis agree most that these factors influence their job satisfaction compared to Emiratis. Both groups consider working conditions and leadership as the highest factors that influence their job satisfaction at 4.64 for Emiratis and Non-Emiratis respectively). They also both consider organizational structure to be the least factor that influences their job satisfaction.

c. Section Three: The analysis of ADGEs IT Project Managers job satisfactions based on MSQ

This section deals with the third part of the questionnaire, ADGEs IT Project Managers job satisfaction towards 20 dimensions of job satisfaction for MSQ, and shows first the descriptive statistics of the whole sample which includes the mean and standard deviation. It then tests whether the means are statistically different from 3, the midpoint of the 5-point Likert-type scale used in measuring responses. Having done this, the section proceeds to test if there is significant difference between the following pairs of groups of respondents using a t-test: the Male/Female; the Emirati/non-Emirati.

| | N | Mean | Std. Deviation | Std. Error Mean |
|---|----|-------|-------------------|--------------------|
| The chance to work alone on the job | 87 | 3.59* | .800 | .086 |
| The chance to do different things from time to time | 88 | 3.89* | .808 | .086 |
| The chance to be "somebody" in the community | 87 | 3.70* | .851 | .091 |
| The chance to do things for other people | 87 | 3.90* | .836 | .090 |
| The chance to tell people what to do | 87 | 3.55* | .859 | .092 |
| The chance to try my own methods of doing the job | 87 | 3.80* | .874 | .094 |
| The chance to do something that makes use of my abilities | 88 | 3.72* | .982 | .105 |
| The chances for advancement on this job | 88 | 3.47* | 1.212 | .129 |
| Being able to keep busy all the time | 88 | 3.85* | .838 | .089 |
| The competency of my supervisor in making decisions | 87 | 3.77* | 1.042 | .112 |
| Being able to do things that don't go agaisnt my conscience | 88 | 3.73* | .919 | .098 |
| The way my job provides for steady employment | 87 | 3.36* | 1.011 | .108 |
| The way company policies are put into practice | 88 | 3.24* | 1.039 | .111 |
| The way my boss handles his/her workers | 87 | 3.72* | 1.042 | .112 |
| The way my co-workers get along with each other | 88 | 3.86* | .886 | .094 |
| My pay and the amount of work I do | 86 | 3.45* | 1.113 | .120 |
| The freedom to use my own judgement | 88 | 3.67* | .919 | .098 |
| The working conditions and environment | 86 | 3.66* | 1.013 | .109 |
| The praise I get for doing a good job | 88 | 3.48* | 1.184 | .126 |
| The feeling of accomplishment I get from the job | 87 | 3.79* | 1.047 | .112 |

Table 7: One Sample Statistics for MSQ Job Satisfaction dimensions

*Indicates that the mean is significantly different from 3

| | Test Valu | ue = 3 | | | | |
|---|-----------|--------|--------------------|--------------------|-------------------------------------|------------------|
| | t | df | Sig. (2-tailed) | Mean Difference | 95% Co Interval of Difference | onfidence the |
| The chance to work alone on the job | 6.831 | 86 | .000 | .586 | .42 | .76 |
| The chance to do different things from time to time | 10.285 | 87 | .000 | .886 | .72 | 1.06 |
| The chance tp be "somebody" in the community | 7.688 | 86 | .000 | .701 | .52 | .88 |
| The chance to do things for other people | 10.006 | 86 | .000 | .897 | .72 | 1.07 |
| The chance to tell people what to do | 5.988 | 86 | .000 | .552 | .37 | .73 |
| The chance to try my own methods of doing the job | 8.588 | 86 | .000 | .805 | .62 | .99 |
| The chance to do something that makes use of my abilities | 6.839 | 87 | .000 | .716 | .51 | .92 |
| The chances for advancement on this job | 3.605 | 87 | .001 | .466 | .21 | .72 |
| Being able to keep busy all the time | 9.542 | 87 | .000 | .852 | .67 | 1.03 |
| The competency of my supervisor in making decisions | 6.893 | 86 | .000 | .770 | .55 | .99 |
| Being able to do things that don't go against my conscience | 7.425 | 87 | .000 | .727 | .53 | .92 |
| The way my job provides for steady employment | 3.286 | 86 | .001 | .356 | .14 | .57 |
| The way company policies are put into practice | 2.154 | 87 | .034 | .239 | .02 | .46 |
| The way my boss handles his/her workers | 6.482 | 86 | .000 | .724 | .50 | .95 |
| The way my co-workers get along with each other | 9.139 | 87 | .000 | .864 | .68 | 1.05 |
| My pay and the amount of work I do | 3.778 | 85 | .000 | .453 | .21 | .69 |
| The freedom to use my own judgment | 6.845 | 87 | .000 | .670 | .48 | .87 |
| The working conditions and environment | 6.068 | 85 | .000 | .663 | .45 | .88 |
| The praise I get for doing a good job | 3.782 | 87 | .000 | .477 | .23 | .73 |
| The feeling of accomplishment I get from the job | 7.065 | 86 | .000 | .793 | .57 | 1.02 |

Table 8:One Sample Statistics for MSQ Job Satisfaction dimensions

Table (7) shows the One-Sample Statistics including Means and Standard Deviations. The researcher aim is to test whether the Means in that table are significantly different from 3, the midpoint of the 5-point Likert-type scale used in measuring responses. Table (8) gives information about the value test-statistic and the significance of the differences of Means from 3. For example, all the items in the MSQ job satisfaction dimensions measure are significantly greater than 3 (Sig. value is less than or equal to 0.05 for all of them). This indicates that the respondents, on average, are satisfied with all MSQ items. One may also conclude that ADGEs IT Project Managers are most satisfied with "the chance to do things for other people" dimension followed by "the chance to do different things from time to time" (mean = 3.90 and 3.89 respectively). However, they are satisfied least with the way their company policies are put into practice (mean = 3.24) followed by the way their job provides steady employment (mean = 3.36). This was in line with the researcher expectations since steady employment has lately been an issue in both local and international job markets due to the economic crisis. IT Project Managers in ADGEs also consider their pay and amount of work they do to be the third least item they are satisfied with (mean = 3.45) compared to other MSQ items. Based on the above mentioned table, one may conclude that IT Project Managers in Abu Dhabi Government Entities are, on average, satisfied with their jobs based on MSQ.

| | Males | | Fe | emales |
|---|-------|-------|------|--------|
| | М | SD | М | SD |
| The chance to work alone on the job | 3.54 | .825 | 3.81 | .655 |
| The chance to do different things from time to time | 3.89 | .815 | 3.88 | .806 |
| The chance to be "somebody" in the community | 3.75 | .857 | 3.50 | .816 |
| The chance to do things for other people | 3.96 | .759 | 3.60 | 1.121 |
| The chance to tell people what to do | 3.58 | .839 | 3.44 | .964 |
| The chance to try my own methods of doing the job | 3.88 | .821 | 3.47 | 1.060 |
| The chance to do something that makes use of my | 3.79 | .903 | 3.38 | 1.258 |
| abilities | | | | |
| The chances for advancement on this job | 3.43 | 1.208 | 3.63 | 1.258 |
| Being able to keep busy all the time | 3.88 | .821 | 3.75 | .931 |
| The competency of my supervisor in making decisions | 3.85 | .988 | 3.40 | 1.242 |
| Being able to do things that don't go agaisnt my | 3.75 | .852 | 3.63 | 1.204 |
| conscience | | | | |
| The way my job provides for steady employment | 3.35 | 1.043 | 3.38 | .885 |
| The way company policies are put into practice | 3.24 | 1.000 | 3.25 | 1.238 |
| The way my boss handles his/her workers | 3.77 | .959 | 3.50 | 1.366 |
| The way my co-workers get along with each other | 3.90 | .825 | 3.69 | 1.138 |
| My pay and the amount of work I do | 3.46 | 1.093 | 3.40 | 1.242 |
| The freedom to use my own judgement | 3.71 | .895 | 3.50 | 1.033 |
| The working conditions and environment | 3.70 | .947 | 3.47 | 1.302 |
| The praise I get for doing a good job | 3.44 | 1.197 | 3.63 | 1.147 |
| The feeling of accomplishment I get from the job | 3.82 | .998 | 3.67 | 1.291 |

Table 9: A comparison between the Means of responses of Males andFemales

Table 9 compares between means of both male and female respondents for MSQ job satisfaction dimensions for Abu Dhabi Government Entities IT Project Managers. The 2 sample t-test carried out by the researcher reveals that there are no significant differences in the means of both groups (see Table A3 in Appendix A) as shown in the table above. This implies that in general, males and females job satisfaction towards the 20 MSQ job satisfaction dimensions. Both groups are also satisfied least with the way their company policies are put into practice (mean = 3.24 and 3.25 for males and females respectively) followed by the way their job provides for steady employment. However, there is a difference in terms of which dimension satisfies them most. For example, the males are satisfied most with the

chance to do things for other people followed by the way their co-workers get along with each other (mean = 3.96 and 3.90 respectively). On the other hand, the females are satisfied most with the chance to do different things from time to time followed by the chance to work alone on the job. All means, however, are greater than 3 which means that on average both groups are satisfied with all MSQ items. In general, it can be also be noticed that the overall means of male respondents are slightly higher than females (15 items out of 20) which might lead to a conclusion that IT project managers males are more satisfied with their jobs than the females.

Table 10: A comparison between the Means of responses of Emaratis andNon Emiratis

| | Emirati | | Non | -Emirati |
|---|---------|-------|------|----------|
| | М | SD | М | SD |
| The chance to work alone on the job | 3.43 | .770 | 3.73 | .809 |
| The chance to do different things from time to time | 3.81 | .707 | 3.96 | .893 |
| The chance to be "somebody" in the community | 3.74 | .885 | 3.67 | .826 |
| The chance to do things for other people | 3.78 | .909 | 4.00 | .760 |
| The chance to tell people what to do | 3.61 | .945 | 3.50 | .782 |
| The chance to try my own methods of doing the job | 3.85 | .882 | 3.76 | .874 |
| The chance to do something that makes use of my | 3.64 | 1.032 | 3.78 | .941 |
| abilities | | | | |
| The chances for advancement on this job | 3.71 | 1.132 | 3.24 | 1.251 |
| Being able to keep busy all the time | 3.71 | .918 | 3.98 | .745 |
| The competency of my supervisor in making decisions | 3.63 | 1.178 | 3.89 | .900 |
| Being able to do things that don't go agaisnt my | 3.62 | 1.035 | 3.83 | .797 |
| conscience | | | | |
| The way my job provides for steady employment* | 3.60 | .828 | 3.13 | 1.120 |
| The way company policies are put into practice | 3.33 | 1.028 | 3.15 | 1.053 |
| The way my boss handles his/her workers | 3.71 | 1.188 | 3.74 | .905 |
| The way my co-workers get along with each other | 4.02 | .975 | 3.72 | .779 |
| My pay and the amount of work I do | 3.60 | 1.033 | 3.33 | 1.175 |
| The freedom to use my own judgement | 3.69 | .841 | 3.65 | .994 |
| The working conditions and environment | 3.71 | 1.078 | 3.62 | .960 |
| The praise I get for doing a good job | 3.62 | 1.147 | 3.35 | 1.215 |
| The feeling of accomplishment I get from the job | 3.83 | 1.046 | 3.76 | 1.058 |

*Indicates significant difference between the means of the two groups

Table 10 compares between means of both Emirati and Non Emirati respondents on MSQ job satisfaction dimensions for Abu Dhabi Government Entities IT Project Managers. The 2 sample t-test carried out by the researcher, reveals that there is significant difference in means of one item "the way my job provides for steady" employment" as shown in the table above (see Table A2 in Appendix A). This implies that job satisfaction with regards to steady employment for Emirati IT Project Managers in Abu Dhabi Government Entities is significantly higher than their non-Emirati counterparts. This was not a surprise to the researcher since UAE nationals are protected by law from termination and layoffs. All means, however, are greater than 3. This implies that, in general, the two groups are satisfied with all MSQ job satisfaction dimensions.. In general, means for Emirati IT projects managers are slightly higher than their counterparts (12 out of 20 items). One may therefore conclude that Emirati IT project Managers are more satisfied with their jobs compared to their counterparts. There is also a difference between highest and lowest means of both groups. For example, Emirati group is satisfied most with the way their co-workers get along with each other followed by the chance to try their own methods of doing the job (means = 4.02 and 3.85 respectively). On the other hand, non-Emiratis are satisfied most with the chance to do things for other people followed by being able to keep busy all the time (means = 4.00 and 3.98 respectively). Emirati are satisfied least with the way their company policies are put into practice (mean = 3.33) whereas the non-Emiratis are satisfied least with the way their job provides for steady employment (mean = 3.13). In general, even though both Emiratis and non-Emiratis are satisfied with all MSQ items, there are difference in what satisfy them most or least...

d. Section Four: The Analysis of overall job satisfaction level of IT Project Managers in Abu Dhabi Government Entities

This section deals with the fourth and final part of the questionnaire, ADGEs IT Project Managers overall job satisfaction, and shows first the descriptive statistics of the whole sample which includes the mean and standard deviation. It then tests whether the means are statistically different from 3, the midpoint of the 5-point Likert-type scale used in measuring responses. Having done this, the section proceeds to test if there is significant difference between the following pairs of groups of respondents using a t-test: the Male/Female and the Emirati/non-Emirati. The section also tries to seek whether there is a difference in responses with regards to age groups and years of experience.

Table 11:One Sample Statistics for overall job satsiafction for ADGEs ITProject Managers

| | N | N 4 | Std. | Std. |
|-------------------------------------|----|-------|-----------|------------|
| | N | Mean | Deviation | Error Mean |
| Overall, I am satisfied with my job | 88 | 3.75* | 1.031 | .110 |

*Indicates that the mean is significantly different from 3

| | | Ŭ | | | | | | |
|-------------------------------------|----------------|----|------------|------------|---------|-----------|--|--|
| | Test Value = 3 | | | | | | | |
| | t | df | Sig. | Mean | | 95% | | |
| | | | (2-tailed) | Difference | Cor | fidence | | |
| | | | | | Interva | al of the | | |
| | | | | | Dif | ference | | |
| Overall, I am satisfied with my job | 6.823 | 87 | .000 | .750 | .53 | .97 | | |

Table 12:One Sample Statistics for overall job satsiafction for ADGEs ITProject Managers

Table (11) shows the One-Sample Statistics including Means and Standard Deviations. The researcher aim is to test whether the Mean in that table is significantly different from 3, the midpoint of the 5-point Likert-type scale used in

measuring responses. Table (12) gives information about the value test-statistic and the significance of the difference of the Mean from 3. For example, the mean for overall satisfaction is significantly greater than 3 (Sig. value is less than or equal to 0.05). This indicates that the respondents, on average, are satisfied with their job overall. One may therefore conclude that IT Project Managers in Abu Dhabi Government Entities are satisfied with their job.

Table 13: A comparison between the Means of responses of Males andFemales

| | Males | | Females | | |
|-------------------------------------|-------|------|---------|-------|--|
| | М | SD | М | SD | |
| Overall, I am satisfied with my job | 3.82 | .969 | 3.44 | 1.263 | |

Table 13 compares between means of both male and female respondents for overall job satisfaction for ADGEs IT Project Managers. The 2 sample t-test carried out by the researcher reveals that there are no significant differences in the means of both groups (see Table A5 in Appendix A) as shown in the table above. This implies that in general, males and females job satisfaction does not significantly differ. Since both groups' means are greater than 3, we can conclude that both groups are satisfied with their jobs. However, it can be noticed from the above table that male respondents had higher mean than female (means = 3.82 and 3.44 for males and females respectively). One may therefore conclude that male IT project managers are more satisfied with their jobs compared to their counterparts (females).

Table 14: A comparison between the Means of responses of Emiratis andNon-Emiratis

| | Emirati | | Non-Emirati | |
|-------------------------------------|---------|-------|-------------|------|
| | М | SD | М | SD |
| Overall, I am satisfied with my job | 3.76 | 1.100 | 3.74 | .976 |

Table 14 compares between means of both Emirati and Non-Emirati respondents for overall job satisfaction for ADGEs IT Project Managers. The 2 sample t-test carried out by the researcher reveals that there are no significant differences in the means of both groups (see Table A5 in Appendix A) as shown in the table above. In fact there is a very minor difference between the means of both groups (means = 3.76 and 3.74 for Emirati and Non-Emirati respectively). This implies that in general, Emirati and Non-Emirati job satisfaction does not differ. Since both groups' means are greater than 3, we can conclude that both groups are satisfied with their jobs.

| | | Std. | Std. | 95% | Confidence |
|-------------------|------|-----------|-------|-------|--------------|
| | Mean | Deviation | Error | Inter | val for Mean |
| Less than 25 | 3.00 | | | • | |
| Between 25 and 30 | 3.31 | .947 | .263 | 2.74 | 3.88 |
| Between 31 and 35 | 4.23 | .685 | .146 | 3.92 | 4.53 |
| Between 36 and 40 | 3.50 | 1.167 | .213 | 3.06 | 3.94 |
| Between 41 and 45 | 4.38 | .870 | .241 | 3.86 | 4.91 |
| Between 46 and 50 | 3.33 | .816 | .333 | 2.48 | 4.19 |
| Between 51 and 55 | 2.50 | .707 | .500 | -3.85 | 8.85 |
| Between 56 and 60 | 4.00 | | | | |
| Total | 3.75 | 1.031 | .110 | 3.53 | 3.97 |

Table 15: A comparison between the Means of responses of different agegroups

Table 15 compares between means of different age groups for ADGEs IT Project Managers. In general, all means of different age groups are greater than 3 except for one age group "between 51 and 55". One might therefore conclude that all different age groups are on average satisfied with their job except the 51-55 group which is slightly not satisfied with the job. It can also be noted that the satisfaction positively increases from less 25 age until 31-35 age limit when it drops again at 36-40 age and then increases at 41-45 age. This is in line with previous studies as mentioned in the literature review. However, it then decreases again until 55 age and then increase at 56-60 age. The least satisfied age group is between 51 - 55 whereas the most satisfied age group is 56-60 followed by 41 - 45 age group.

| | | Std. | Std. | 95% Confidence Interval for Mean | | |
|-------------------------|------|-----------|-------|-------------------------------------|------|--|
| | Mean | Deviation | Error | | | |
| Fewer than 5 years | 3.33 | 1.211 | .494 | 2.06 | 4.60 | |
| Between 6 and 10 years | 3.89 | .809 | .186 | 3.50 | 4.28 | |
| Between 11 and 15 years | 3.63 | 1.149 | .221 | 3.18 | 4.08 | |
| Between 16 and 20 years | 3.92 | 1.060 | .216 | 3.47 | 4.36 | |
| Between 21 and 25 years | 3.88 | .991 | .350 | 3.05 | 4.70 | |
| Between 26 and 30 years | 3.25 | .957 | .479 | 1.73 | 4.77 | |
| Total | 3.75 | 1.031 | .110 | 3.53 | 3.97 | |

Table 16: A comparison between the Means of responses of differentyears of experience groups

Table 16 compares between means of different years of experience groups for ADGEs IT Project Managers. In general, all means of different experience groups are greater than 3. One might therefore conclude that all different age groups are on average satisfied with their job. The least satisfied experience group is between 26 - 30 years of experience whereas the most satisfied group has between 16 - 20 years of experience.

Table 17: A comparison between the Means of responses of differenteducation levels

| | Mean | Std. Deviation | Std. Error | | Confidence /al for Mean |
|------------------|------|-------------------|---------------|-------|----------------------------|
| Certificate | 4.00 | | | 4.00 | 4.00 |
| Diploma | 4.00 | 1.414 | 1.000 | -8.71 | 16.71 |
| Higher Diploma | 3.33 | 1.155 | .667 | .46 | 6.20 |
| Bachelors Degree | 3.78 | .974 | .145 | 3.49 | 4.07 |
| Masters Degree | 3.81 | .946 | .170 | 3.46 | 4.15 |
| PhD | 3.00 | 2.309 | 1.155 | 67 | 6.67 |
| Total | 3.75 | 1.031 | .110 | 3.53 | 3.97 |

Table 17 compares between means of different education levels for ADGEs IT Project Managers. In general, all means of the groups are greater than 3. One

might therefore conclude that all different educational level groups are on average satisfied with their job. The least satisfied education level group is the PhD holders whereas the most satisfied educational level are the certificate and diploma holders followed by master's degree holders.

CHAPTER 5 : DISCUSSION

The main purpose of this study was to determine the level of job satisfaction of IT Project Managers in Abu Dhabi Government Entities. Information was gathered using a questionnaire that had a major section that was based on MSQ, another section (factors that influence job satisfaction) was developed by the researcher based on literature review and the remaining ones were developed by the researcher. The questionnaire was used to answer the following questions which acted as a guide for the investigation:

- What is the overall job satisfaction level of IT Project Managers in Abu Dhabi Government Entities?
- What is the level of ADGEs IT Project Managers job satisfaction in regard to each of the 20 dimensions of job satisfaction based on Minnesota Satisfaction Questionnaire (MSQ)?
- Do demographic factors affect the job satisfaction of ADGEs IT Project Managers?
- What are the key factors that influence ADGEs IT project managers job satisfaction?

Below are the hypothesises for this study:

Hypothesis 1 a (Null Hypothesis): IT Project Managers in Abu Dhabi Government Entities are satisfied with their jobs

Hypothesis 1 b (Alternate Hypothesis): IT Project Managers in Abu Dhabi Government Entities are not satisfied with their jobs.

Hypothesis 2 a (Null Hypothesis): There is a relationship between ADGEs IT Project Managers' demographic factors (age, gender and years of experience) and their job satisfaction

Hypothesis 2 b (Alternate Hypothesis): There is no relationship between ADGEs IT Project Managers' demographic factors (age, gender and years of experience) and their job satisfaction.

This chapter discusses the significant findings in the analysis in relation to the four specific research questions and discusses the main points in the light of the literature review in chapter two.

I. Major Findings

a. **Demographics**

The majority of Abu Dhabi Government Entities (65.5%) responded to the questionnaire. One might therefore conclude that the sample generally represented the population (all IT project managers in Abu Dhabi Government Entities) giving the researcher high confidence in the responses collected. However, 25% of the respondents were only from the one organization due to the nature of their work (project based organization).

Since most of the respondents were male (79%), one may also conclude that IT project managers jobs in Abu Dhabi are dominated by male employees. This was not a surprise to the researcher since most of the IT jobs world-wide are dominated by male and the UAE culture is also more masculine centric than feminine.

With regards to the ages of respondents, 60% of the respondents were between 31-40 years old. Very few respondents reported that they were aged above 51. This implies that IT project managers in Abu Dhabi Government Entities are

generally youth (mid aged). It is not clear whether IT project managers in ADGEs change their jobs to something else like CIOs or operational managers in IT after they reach 40 years old or it's due to the retirement age constraint. However, the highest number of respondents (30%) reported that they had between 11-15 years of experience. In fact 58% of the respondents had between 11 – 20 years of experience and only 6% had less than 5 years of experience. One might therefore conclude that in general, the IT project managers in ADGEs started their jobs at an early stage.

In general, IT Project Managers are considered to be highly educated since 86% of the respondents reported either to have at least a bachelor's degree. This might be due to the high job specifications, skills and expectations from Project Managers in general. This is in line with Neal (1998) cited in (Burchell and Gilden, 2008) argument that project managers should have the ability to carry out key tasks like negotiation, planning, budgeting, managing and many others. Henries and Sousa-Poza, (2005) also urge that the complexity with project manager's role increases in places with cross cultural issues like Asia. Pinto and Kharbanda, (1996) cited in (Yasin et al., 1997) also describes the key role of a project manager as "the one person who has to make the project succeed by marshalling resources, motivating team personnel, negotiating with stakeholders...".

Finally, there seem to be a balance between recruitment of Emiratis and Non Emirati as IT Project Managers in Abu Dhabi Government Entities. 49% of the respondents were non-UAE nationals. This can be attributed to the fact that IT Project Management is a complex field that requires many skills and expertise that might not all be available in the local market.

b. What are the key factors that influence ADGEs IT Project Managers Job Satisfaction

IT Project Managers in Abu Dhabi Government Entities consider all key factors that were mentioned in the literature review section of this study to be influential on their iob satisfaction. These factors are pay/compensation, working conditions/working environment, ((Bodur, 2002 cited in (Turkyilmaz et. al, 2011)), (Alanya, 2011) and (Luthans, 1992 cited in (Turkyilmaz et. al, 2011)) leadership/management, with co-workers/colleagues, relationship job characteristics ((Luthans, 1992 cited in (Turkyilmaz et. al, 2011)) and (Drummond and Stoddard, 1991), organizational policies (Drummond and Stoddard, 1991), organizational structure (Alanya, 2011), job promotion and organization's systems and processes (Kazemzadeh and Bashiri, 2005 cited in (Turkyilmaz et. al, 2011)).

Even though IT Project Managers' job satisfaction is influenced with all these factors, it is mostly influenced by working conditions and leadership respectively. In other words, if ADGEs want to improve the well-being of IT Project Managers by making changes in their organizations, they should focus on improving their working conditions and ensuring that they have good leaders and managers. In contrast with the general perception that salaries are the key influencers for job satisfaction, IT Project Managers in ADGEs do not consider pay/salary as the highest factor that influence their job satisfaction even though it's important. Not surprising to the researcher, organization structure is the least factor that influences IT Project Managers job satisfaction. This can be attributed to the fact that project managers in general and IT project managers in particular are used to working in different organization structures like matrix organization and they always find themselves reporting to different managers based on the project they are managing which makes organization structure irrelevant to them.

c. What is the Level of ADGEs IT Project Managers Job Satisfaction in regard to each of the 20 dimensions of job satisfaction based on Minnesota Satisfaction Questionnaire

| Table 18: Ranking of Minnesta Satifaction Questionnaire Dimensions with |
|---|
| Regards to ADGEs IT Project Managers Job Satisfaction |

| | Rank | Mean | Std. Deviation |
|---|------|-------|----------------|
| The chance to do things for other people | 1 | 3.90* | .836 |
| The chance to do different things from time to time | 2 | 3.89* | .808. |
| The way my co-workers get along with each other | 3 | 3.86* | .886 |
| Being able to keep busy all the time | 4 | 3.85* | .838 |
| The chance to try my own methods of doing the job | 5 | 3.80* | .874 |
| The feeling of accomplishment I get from the job | 6 | 3.79* | 1.047 |
| The competency of my supervisor in making decisions | 7 | 3.77* | 1.042 |
| Being able to do things that don't go agaisnt my conscience | 8 | 3.73* | .919 |
| The chance to do something that makes use of my abilities | 9 | 3.72* | .982 |
| The way my boss handles his/her workers | 10 | 3.72* | 1.042 |
| The chance to be "somebody" in the community | 11 | 3.70* | .851 |
| The freedom to use my own judgement | 12 | 3.67* | .919 |
| The working conditions and environment | 13 | 3.66* | 1.013 |
| The chance to work alone on the job | 14 | 3.59* | .800 |
| The chance to tell people what to do | 15 | 3.55* | .859 |
| The praise I get for doing a good job | 16 | 3.48* | 1.184 |
| The chances for advancement on this job | 17 | 3.47* | 1.212 |
| My pay and the amount of work I do | 18 | 3.45* | 1.113 |
| The way my job provides for steady employment | 19 | 3.36* | 1.01 |
| The way company policies are put into practice | 20 | 3.24* | 1.039 |

IT Project Managers in ADGEs are satisfied with all job satisfaction dimensions on Minnesota Satisfaction Questionnaire. However, even though they are satisfied with their jobs, the level of satisfaction is not extremely high since none of the dimensions had a mean close to 5 (the highest was 3.90 on a scale of 5). Further investigation was needed to see how these dimensions rank in terms of IT project managers satisfaction. Table 18 presents the means and standard deviation of each dimension ranked from highest satisfaction to lowest satisfaction. The top five highest sources of job satisfaction for IT project managers in ADGEs (all have means of at least 3.8) are the chance to do things for other people, the chance to do different things from time to time, the way co-workers get along with each other, being able to keep themselves busy all the time and the chance to try their own methods of doing the job respectively. On the other hand, the least five sources of job satisfaction for IT Project Managers in ADGEs are the way their company policies are put into practice, the way their job provides steady employment, their pay and the amount of work they do, the chances for advancement on their job and the praise they get for doing a good job. However, steady employment has been recently an issue for almost all Abu Dhabi government organizations for the last few years and it might be a general HR issue for most employees in Abu Dhabi Government Entities than being specific to IT project managers. This implies that if ADGEs want to improve job satisfaction for their IT Project managers they should reconsider or revisit how their policies are put into practice, provide a steady employment and try to align pay with the work project managers do.

After discussing the factors that influence IT Project Managers' job satisfaction in the previous section and after discussing the sources of job satisfaction for IT Project Managers based on MSQ dimensions in this section, it's worth to link between the two sections. The first section focuses on high level factors that are important in influencing job satisfaction. This helps policy makers at executive level to understand which factors they should give a high priority while preparing job satisfaction programs for IT Project Managers. In contrast, the MSQ section focusses on specific aspects which act as sources to IT Project Managers' job satisfaction. In other words, one single factor in the first section can be covering multiple items in MSQ section. For example, IT Project Managers indicated that working conditions is the most important factor that influences their job satisfaction. This can cover doing different things from time to time, keeping busy all the time and trying their own methods of doing the job which were all ranked among the highest five sources of job satisfaction on MSQ by them.

d. What is the overall job satisfaction level of IT Project Managers in Abu Dhabi Government Entities.

On average, IT Project Managers in Abu Dhabi Government Entities are satisfied with their job. Even though they are satisfied in general, their satisfaction is not extremely high (overall mean satisfaction is 3.75 on a scale of 5) which implies that there is still room for improving their satisfaction.

e. Do demographic factors affect the job satisfaction of ADGEs IT Project Managers.

• Gender

In general there is no difference between the factors that influence job satisfaction for male IT project managers in ADGEs as opposed to female IT Project Managers. In fact, they both agree that working conditions and leadership have the highest influence on their job satisfaction. They also both consider organization structure to be the least influencing factor for their satisfaction. There was also no significant differences in terms of the sources of both male and female IT project managers job satisfaction based on MSQ. Both groups also have the way their company puts policies into practice and steady employment to be the least sources of their job satisfaction. However, there is a difference in terms of which items have the highest sources of their job satisfaction. The males consider the chance to do things for other people as highest whereas females consider the chance to do different things from time to time. Overall, both males and females are satisfied with all 20 MSQ dimensions. However, on overall male IT project managers are more satisfied with their jobs than female IT project managers. In summary, even though male project managers job satisfaction is slightly higher compared to females, there is no significant difference between satisfaction of both groups. This contrasts with previous research by Bodur (2002) cited in (Turkyilmaz et. al, 2011) which suggests that gender influences employee job satisfaction.

One might therefore conclude that policy makers and ADGEs should not develop separate programs to enhance job satisfaction for males and female IT project managers since they all share similar influencing factors and there is no significant differences in the sources of their job satisfaction. However, male IT Project Managers in ADGEs give higher value to pay/compensation as an influencing factor to their job satisfaction compared to female IT project managers.

• Nationality (Emirati Vs. Non-Emirati)

There was also no major difference between Emirati and non-Emirati IT Project managers in ADGEs. In other words they both share similar influencing factors for their job satisfaction. Both groups also agree that working conditions are the most influencing factors for their job satisfaction followed by leadership. With regards to MSQ dimensions, there was a significant difference between Emirati and Non Emiratis on one item "the way my job provides stead employment" where by Emiratis' satisfaction towards this dimension was significantly higher than the non-Emiratis. This is due to the fact that UAE nationals are protected by law from termination or layoffs compared to the non-nationals who can be terminated with notice but without any legal consequences. With regards to overall job satisfaction, there is a very minor difference in terms of level of satisfaction between two groups. One can therefore conclude that nationality, in specific national vs non-national, does not impact job satisfaction for IT Project Managers in ADGEs.

With the exception of one area "provision of a steady employment" one might therefore conclude that policy makers and ADGEs should not develop separate programs to enhance job satisfaction for Emiratis and Non-Emirati IT project managers since they all share similar influencing factors and there is no significant differences in the sources of their job satisfaction except one. However, they should consider focusing more on providing a more steady employment for non-UAE nationals compared to their counterparts.

• Age

With the exception of age group between 51 to 55 years, ADGEs IT project managers in all age groups are on average satisfied with their jobs. IT Project Managers between the age of 41 and 45 years are the most satisfied age group compared to others. This contradicts with Jabnoun and Fook, (2001) job satisfaction study conducted on Malaysian teachers which concluded that age group 40-50 is the least satisfied group and the most difficult to motivate. In fact, the least satisfied age group for IT Project Managers is between 51 and 55 age.

Education Level

On average, all IT project managers at different education level are satisfied with their job. However, there are differences in their level of satisfaction with PhD having the least satisfaction level. It is also concluded that in general, the higher the education level, the higher the satisfaction of IT project managers with the exception of PhD and certificate/diploma holders. This is in line with Kazemzadeh and Bashiri (2005) cited in (Turkyilmaz et. al, 2011) who report that employee education level influences job satisfaction.

I. Summary of Discussion

In summary, IT Project Managers in Abu Dhabi Government Entities agree that all the key factors identified in literature, influence their job satisfaction. Working conditions is the most influencing factor for their job satisfaction followed by leadership which implies that ADGEs need to put all these factors in consideration with a major focus on these two. IT Project Managers in Abu Dhabi Government Entities are also satisfied with all 20 dimensions of job satisfaction on MSQ with the ability to do things for others ranking as highest source for their satisfaction but there is still room for improvement. In general, demographic factors, with an exception of education level, do not influence job satisfaction for IT Project Managers in ADGEs which contradicts with previous studies. However, it is worth mentioning that non-Emirati project managers feel significantly less satisfied with their steady employment compared to their Emirati counterparts.

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CHAPTER 6 :

CONCLUSION

Based on the results of this study, the researcher can draw the following conclusions:

- IT Project Managers in Abu Dhabi Government Entities are on average satisfied with their job based on Minnesota Satisfaction Questionnaire. Even though they are satisfied, there is still room for improving their satisfaction.
- With an exception of educational level, other demographic factors like age, gender and even nationality do not influence job satisfaction for IT Project Managers in ADGEs in contrast with previous studies.
- All factors indicated in literature review influence job satisfaction for IT Project Managers in Abu Dhabi Government Entities with working conditions being the highest influencing factor.
- IT Project Managers are satisfied with all the 20 MSQ job satisfaction dimensions with the ability to do things for other people being the highest source of their job satisfaction.

CHAPTER 7 :

RECOMENDATIONS

From the findings of this study and in order to improve IT project managers job satisfaction in Abu Dhabi Government Entities, it is recommended that ADGEs and policy makers ensure that all factors influencing job satisfaction that were indicated in the literature review are put into consideration with more focus on improving working conditions and leaders/managers for IT Project Managers. Further studies or workshops with IT Project Managers in ADGEs might be needed to investigate the specifics and detail of what good working conditions and good leaders imply in their point of view. Abu Dhabi Government Entitles should also try to find ways to further improve the level of job satisfaction for IT Project Managers in their organizations since they are not extremely satisfied. This will require putting more focus on improving the way how their organizational policies are put into practice. However, they might need to investigate what specific issues or concerns are faced by IT Project Managers with regards to policies. Is it fairness in applying the policies to employees or something else. ADGEs should also find ways to provide steady employment for IT Project Managers especially for the non-Emiratis. Finally, since there is no significant differences in factors and sources of job satisfaction for males/females and other demographic factors, ADGEs need not to have separate programs to improve job satisfaction for IT Project Managers.

CHAPTER 8:

FUTURE RESEARCH

In terms of future research on IT Project Managers job satisfaction, the following studies are considered critical in the future.

- Conduct a study that investigates good working conditions and good leadership in IT Project Managers point of view.
- Conduct a study that comprehensively investigates IT Project Managers' job satisfaction using interviews to gather data from a different perspective.
- Conduct a study on job satisfaction of IT Project Managers throughout all Abu Dhabi organizations (both private and government) and all UAE organizations, to provide a more comprehensive view of how IT project managers feel about their job.
- Conduct a study on IT Project Managers job satisfaction in Abu Dhabi Government Entities for at least five years to further understand IT Project Managers job satisfaction in detail across time.

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Appendix

I. Appendix A: Two sample t-test tables

Table A1 :

| | | Leve for Equ Varia | | | t-test | for Equalit | y of Mean | S | Interva | Confidence al of the rrence |
|---|--------------------------------|--------------------------|------|-------|--------|--------------------|----------------------------|-----------------------------|-----------|-----------------------------------|
| | | F | Sig. | t | df | Sig. (2-tailed) | Mea n Differenc e | Std. Error Difference | Low er | Upper |
| Pay/compensation | Equal variances assumed | 4.906 | .029 | 1.653 | | | | | 068 | .743 |
| | Equal variances not assumed | | | 1.767 | 23.555 | .090 | .338 | .191 | 057 | .732 |
| Working conditions/working | Equal variances assumed | 2.115 | .149 | .705 | 91 | .483 | .098 | .139 | 178 | .373 |
| environment | Equal variances not assumed | | | .625 | 22.833 | .538 | .098 | .156 | 226 | .422 |
| Leadership/management | Equal variances assumed | .040 | .842 | .679 | 91 | .499 | .098 | .144 | 188 | .384 |
| | Equal variances not assumed | | | .716 | 27.563 | .480 | .098 | .137 | 182 | .378 |
| Relationship with co- workers/colleagues | Equal variances assumed | .077 | .782 | 316 | 91 | .753 | 056 | .176 | 405 | .294 |
| | Equal variances not assumed | | | 340 | 28.324 | .737 | 056 | .164 | 390 | .279 |
| Job characteristics | Equal variances assumed | 8.366 | .005 | .987 | 91 | .326 | .173 | .176 | 176 | .522 |
| | Equal variances not assumed | | | 1.235 | 36.435 | .225 | .173 | .140 | 111 | .458 |
| Organizational policies | Equal variances assumed | .233 | .630 | 458 | 91 | .648 | 089 | .194 | 474 | .297 |
| | Equal variances not assumed | | | 505 | 29.370 | .617 | 089 | .176 | 448 | .271 |

| Organizational structure | Equal variances assumed | 1.342 | .250 | 119 | 91 | .905 | 027 | .223 | 470 | .417 |
|---|--------------------------------|-------|------|--------|--------|------|------|------|-----|------|
| | Equal variances not assumed | | | 139 | 32.113 | .890 | 027 | .191 | 416 | .363 |
| Opportunity for advancement/promotion | Equal variances assumed | .111 | .740 | -1.679 | 91 | .097 | 289 | .172 | 631 | .053 |
| | Equal variances not assumed | | | -1.760 | 27.340 | .090 | 289 | .164 | 626 | .048 |
| Organizational systems and processes | Equal variances assumed | .078 | .780 | .420 | 91 | .675 | .073 | .174 | 273 | .420 |
| | Equal variances not assumed | | | .401 | 24.467 | .692 | .073 | .183 | 304 | .451 |

| | | Tes | vene's t for lity of inces | | test for I | Equalit | y of Me | eans | 95% C Interva Differ | |
|---|--------------------------------|-----------|-------------------------------------|-------------|------------|------------------------|-------------|---------------------------|----------------------------|-----------|
| | | | Si | | | Si g. (2- tailed | | Std . Error Differe | | Uppe |
| Pay/compensation | Equal variances assumed | F .086 | g. .769 | t -1.119 | df 89 |) .266 | ence 176 | nce .157 | Lower 487 | r .136 |
| | Equal variances not assumed | | | -1.116 | 86.900 | .267 | 176 | .157 | 488 | .137 |
| Working conditions/working | Equal variances assumed | .012 | .912 | 072 | 91 | .943 | 008 | .110 | 226 | .211 |
| environment | Equal variances not assumed | | | 072 | 90.931 | .943 | 008 | .110 | 226 | .211 |
| Leadership/managem ent | Equal variances assumed | .171 | .681 | 069 | 91 | .945 | 008 | .114 | 235 | .219 |
| | Equal variances not assumed | | | 069 | 90.094 | .945 | 008 | .114 | 235 | .219 |
| Relationship with co- workers/colleagues | Equal variances assumed | 1.455 | .231 | -1.511 | 91 | .134 | 208 | .137 | 481 | .065 |
| | Equal variances not assumed | | | -1.512 | 90.786 | .134 | 208 | .137 | 481 | .065 |
| Job characteristics | Equal variances assumed | 1.515 | .222 | -1.701 | 91 | .092 | 234 | .137 | 506 | .039 |
| | Equal variances not assumed | | | -1.699 | 90.365 | .093 | 234 | .137 | 507 | .039 |
| Organizational policies | Equal variances assumed | 2.706 | .103 | 822 | 91 | .413 | 126 | .153 | 430 | .178 |
| | Equal variances not assumed | | | 823 | 90.217 | .413 | 126 | .153 | 429 | .178 |
| Organizational structure | Equal variances assumed | .147 | .702 | 490 | 91 | .625 | 086 | .176 | 437 | .264 |
| | Equal variances not assumed | | | 491 | 90.914 | .625 | 086 | .176 | 437 | .264 |

| Opportunity for advancement/promoti | Equal variances assumed | 3.709 | .057 | 888 | 91 | .377 | 122 | .137 | 395 | .151 |
|-------------------------------------|--------------------------------|-------|------|------|--------|------|------|------|-----|------|
| on | Equal variances not assumed | | | 892 | 82.256 | .375 | 122 | .137 | 395 | .150 |
| Organizational systems and | Equal variances assumed | .831 | .364 | .191 | 91 | .849 | .026 | .138 | 248 | .300 |
| processes | Equal variances not assumed | | | .192 | 88.881 | .849 | .026 | .138 | 247 | .300 |

| | | Levene | 'e | | | | | | 95% | |
|---|--------------------------------|----------|------|-----------|-------------|---------------------|------------------------|---------------------------------|---------------|-----------|
| | | Test for | - | | | | | | 95% Confic | ence |
| | | Equality | | | | | | | | al of the |
| | | Varianc | | t-test fo | or Equality | / of Mean | IS | | Differe | |
| | | F | Sig. | t | df | Sig. (2- tailed) | Mean Differen ce | Std. Error Differe nce | | Upper |
| The chance to work alone on the job | Equal variances assumed | 3.082 | .083 | -1.256 | 85 | .213 | 277 | .221 | 716 | .162 |
| | Equal variances not assumed | | | -1.453 | 26.906 | .158 | 277 | .191 | 669 | .114 |
| The chance to do different things from | Equal variances assumed | .013 | .910 | .062 | 86 | .951 | .014 | .225 | 433 | .461 |
| time to time | Equal variances not assumed | | | .062 | 22.335 | .951 | .014 | .223 | 449 | .476 |
| The chance tp be "somebody" in the | Equal variances assumed | .010 | .921 | 1.048 | 85 | .298 | .246 | .235 | 221 | .714 |
| community | Equal variances not assumed | | | 1.081 | 23.072 | .291 | .246 | .228 | 225 | .718 |
| The chance to do things for other people | Equal variances assumed | 7.098 | .009 | 1.522 | 85 | .132 | .358 | .235 | 110 | .826 |
| | Equal variances not assumed | | | 1.183 | 16.769 | .253 | .358 | .303 | 282 | .998 |
| The chance to tell people what to do | Equal variances assumed | .886 | .349 | .586 | 85 | .559 | .140 | .239 | 335 | .615 |
| | Equal variances not assumed | | | .537 | 20.437 | .597 | .140 | .261 | 403 | .683 |
| The chance to try my own methods of doing | Equal variances assumed | 4.207 | .043 | 1.663 | 85 | .100 | .408 | .246 | 080 | .897 |
| the job | Equal variances not assumed | | | 1.406 | 17.664 | .177 | .408 | .290 | 202 | 1.019 |
| The chance to do something that makes | Equal variances assumed | 4.643 | .034 | 1.547 | 86 | .125 | .417 | .269 | 119 | .952 |

| use of my abilities | Equal variances not assumed | | | 1.255 | 18.577 | .225 | .417 | .332 | 279 | 1.113 |
|--|--------------------------------|-------|------|-------|--------|------|------|------|-----|-------|
| The chances for advancement on this | Equal variances assumed | .048 | .827 | 578 | 86 | .565 | 194 | .336 | 863 | .474 |
| job | Equal variances not assumed | | | 563 | 21.585 | .579 | 194 | .345 | 911 | .522 |
| Being able to keep busy all the time | Equal variances assumed | .795 | .375 | .538 | 86 | .592 | .125 | .233 | 337 | .587 |
| | Equal variances not assumed | | | .496 | 20.506 | .625 | .125 | .252 | 400 | .650 |
| The competency of my supervisor in making | Equal variances assumed | 1.879 | .174 | 1.524 | 85 | .131 | .447 | .294 | 136 | 1.031 |
| decisions | Equal variances not assumed | | | 1.311 | 17.873 | .207 | .447 | .341 | 270 | 1.164 |
| Being able to do things that dont go | Equal variances assumed | 1.977 | .163 | .490 | 86 | .625 | .125 | .255 | 382 | .632 |
| agaisnt my conscience | Equal variances not assumed | | | .394 | 18.472 | .698 | .125 | .317 | 540 | .790 |
| The way my job provides for steady | Equal variances assumed | .557 | .457 | 081 | 85 | .935 | 023 | .281 | 583 | .537 |
| employment | Equal variances not assumed | | | 090 | 25.333 | .929 | 023 | .254 | 545 | .499 |
| The way company policies are put into | Equal variances assumed | 1.981 | .163 | 048 | 86 | .962 | 014 | .289 | 588 | .560 |
| practice | Equal variances not assumed | | | 042 | 19.575 | .967 | 014 | .331 | 706 | .678 |
| The way my boss handles his/her | Equal variances assumed | 4.793 | .031 | .952 | 85 | .344 | .275 | .289 | 299 | .848 |
| workers | Equal variances not assumed | | | .763 | 18.468 | .455 | .275 | .360 | 480 | 1.030 |
| The way my co- workers get along with | Equal variances assumed | 2.825 | .096 | .878 | 86 | .383 | .215 | .245 | 272 | .703 |
| each other | Equal variances not assumed | | | .716 | 18.652 | .483 | .215 | .301 | 415 | .846 |
| My pay and the amount of work I do | Equal variances assumed | .180 | .673 | .204 | 84 | .839 | .065 | .318 | 568 | .697 |
| | Equal variances not assumed | | | .187 | 18.856 | .853 | .065 | .346 | 660 | .789 |

| The freedom to use my own judgement | Equal variances assumed | 1.335 | .251 | .819 | 86 | .415 | .208 | .254 | 297 | .714 |
|---------------------------------------|--------------------------------|-------|------|------|--------|------|------|------|-----|------|
| | Equal variances not assumed | | | .747 | 20.305 | .464 | .208 | .279 | 373 | .790 |
| The working conditions and | Equal variances assumed | 2.918 | .091 | .824 | 84 | .412 | .238 | .288 | 336 | .811 |
| environment | Equal variances not assumed | | | .670 | 17.262 | .512 | .238 | .354 | 509 | .985 |
| The praise I get for doing a good job | Equal variances assumed | .446 | .506 | 550 | 86 | .584 | 181 | .329 | 834 | .473 |
| | Equal variances not assumed | | | 565 | 22.854 | .578 | 181 | .320 | 842 | .481 |
| The feeling of accomplishment I get | Equal variances assumed | 1.308 | .256 | .512 | 85 | .610 | .153 | .298 | 441 | .746 |
| from the job | Equal variances not assumed | | | .432 | 17.646 | .671 | .153 | .353 | 591 | .896 |

| | | Levene Test for Equality Varianc | / of | t-test f | or Equa | | 95% Confidence Interval of the Difference | | | |
|--|--------------------------------|---|------|------------|---------|------------------------|---|---------------------------------|-------|-------|
| | | F | Sig. | t | df | Sig. (2- tailed) | Mean Differen ce | Std. Error Differen ce | Lower | Upper |
| The chance to work alone on the job | Equal variances assumed | .017 | .896 | - 1.797 | 85 | .076 | 305 | .170 | 642 | .032 |
| | Equal variances not assumed | | | - 1.801 | 84.966 | .075 | 305 | .169 | 641 | .032 |
| The chance to do different things from | Equal variances assumed | .115 | .736 | 851 | 86 | .397 | 147 | .173 | 491 | .197 |
| time to time | Equal variances not assumed | | | 860 | 84.340 | .392 | 147 | .171 | 487 | .193 |
| The chance tp be "somebody" in the | Equal variances assumed | .000 | .992 | .389 | 85 | .698 | .071 | .183 | 293 | .436 |
| community | Equal variances not assumed | | | .388 | 83.390 | .699 | .071 | .184 | 294 | .437 |
| The chance to do things for other people | Equal variances assumed | 3.216 | .076 | - 1.226 | 85 | .223 | 220 | .179 | 575 | .136 |
| | Equal variances not assumed | | | - 1.214 | 78.362 | .228 | 220 | .181 | 579 | .140 |
| The chance to tell people what to do | Equal variances assumed | 1.585 | .212 | .592 | 85 | .555 | .110 | .185 | 259 | .478 |
| | Equal variances not assumed | | | .586 | 77.891 | .560 | .110 | .187 | 263 | .483 |
| The chance to try my own methods of doing | Equal variances assumed | .002 | .963 | .492 | 85 | .624 | .093 | .189 | 282 | .468 |
| the job | Equal variances not assumed | | | .492 | 83.677 | .624 | .093 | .189 | 282 | .468 |
| The chance to do something that makes | Equal variances assumed | .307 | .581 | 665 | 86 | .508 | 140 | .210 | 558 | .278 |

| use of my abilities | Equal variances not assumed | | | 662 | 83.195 | .510 | 140 | .211 | 560 | .280 |
|---|--------------------------------|-------|------|------------|--------|------|------|------|------|------|
| The chances for advancement on this | Equal variances assumed | 2.049 | .156 | 1.862 | 86 | .066 | .475 | .255 | 032 | .982 |
| job | Equal variances not assumed | | | 1.871 | 85.996 | .065 | .475 | .254 | 030 | .980 |
| Being able to keep busy all the time | Equal variances assumed | 4.036 | .048 | - 1.486 | 86 | .141 | 264 | .178 | 617 | .089 |
| | Equal variances not assumed | | | - 1.472 | 79.071 | .145 | 264 | .179 | 621 | .093 |
| The competency of my supervisor in making | Equal variances assumed | 3.713 | .057 | - 1.151 | 85 | .253 | 257 | .223 | 701 | .187 |
| decisions | Equal variances not assumed | | | - 1.134 | 74.521 | .261 | 257 | .227 | 709 | .195 |
| Being able to do things that dont go | Equal variances assumed | 2.818 | .097 | - 1.056 | 86 | .294 | 207 | .196 | 597 | .183 |
| agaisnt my conscience | Equal variances not assumed | | | - 1.044 | 76.907 | .300 | 207 | .198 | 602 | .188 |
| The way my job provides for steady | Equal variances assumed | 2.219 | .140 | 2.175 | 85 | .032 | .462 | .212 | .040 | .884 |
| employment | Equal variances not assumed | | | 2.197 | 80.866 | .031 | .462 | .210 | .044 | .880 |
| The way company policies are put into | Equal variances assumed | .006 | .936 | .815 | 86 | .417 | .181 | .222 | 261 | .623 |
| practice | Equal variances not assumed | | | .816 | 85.607 | .417 | .181 | .222 | 260 | .623 |
| The way my boss handles his/her | Equal variances assumed | 4.214 | .043 | 141 | 85 | .888 | 032 | .225 | 479 | .416 |
| workers | Equal variances not assumed | | | 139 | 74.385 | .890 | 032 | .229 | 487 | .424 |
| The way my co- workers get along with | Equal variances assumed | .170 | .681 | 1.635 | 86 | .106 | .306 | .187 | 066 | .679 |
| each other | Equal variances not assumed | | | 1.619 | 78.456 | .110 | .306 | .189 | 070 | .683 |
| My pay and the amount of work I do | Equal variances assumed | 1.560 | .215 | 1.140 | 84 | .257 | .274 | .240 | 204 | .752 |
| | Equal variances not assumed | | | 1.151 | 83.987 | .253 | .274 | .238 | 199 | .747 |

| The freedom to use my own judgement | Equal variances assumed | 1.082 | .301 | .194 | 86 | .846 | .038 | .197 | 354 | .430 |
|---------------------------------------|--------------------------------|-------|------|-------|--------|------|------|------|-----|------|
| | Equal variances not assumed | | | .196 | 85.523 | .845 | .038 | .196 | 351 | .427 |
| The working conditions and | Equal variances assumed | .002 | .963 | .387 | 84 | .700 | .085 | .220 | 352 | .522 |
| environment | Equal variances not assumed | | | .385 | 80.496 | .701 | .085 | .221 | 355 | .525 |
| The praise I get for doing a good job | Equal variances assumed | .748 | .389 | 1.074 | 86 | .286 | .271 | .252 | 231 | .773 |
| | Equal variances not assumed | | | 1.077 | 85.900 | .284 | .271 | .252 | 229 | .772 |
| The feeling of accomplishment I get | Equal variances assumed | .090 | .765 | .303 | 85 | .763 | .068 | .226 | 381 | .518 |
| from the job | Equal variances not assumed | | | .303 | 84.063 | .763 | .068 | .226 | 381 | .518 |

| | | Levene Test for Equality Varianc | / of | t-test fo | r Equality | ∕ of Me | ans | | 95% Coi Interval o Differenc | of the |
|--|---|---|------|----------------|--------------|----------------------------|-----------------|--------------|------------------------------------|---------------|
| | | F | Sig. | t | df | Sig. (2- tailed) | Mean Differe | | Lower | Upper |
| Overall, I am satisfied with my job | Equal variances assumed Equal variances not | 2.755 | .101 | 1.346 1.137 | 86 19.109 | .182 .269 | .382 .382 | .284 .336 | 182 321 | .946 1.085 |
| | assumed | | | | | | | | | |

| | | Levene Test for Equality Varianc | / of | | t-test for | Equalit | y of Mea | ans | Conf Interva | 95% idence al of the erence |
|-------------------------------------|--------------------------------|---|------|------|------------|----------------------------|----------------------------|----------------------------------|-----------------|--------------------------------------|
| | | F | Sig. | t | df | Sig. (2- tailed) | Me an Differe nce | Std . Error Differe nce | | Upper |
| Overall, I am satisfied with my job | Equal variances assumed | .190 | .664 | .103 | 86 | .918 | .02 3 | .22 1 | - .417 | .463 |
| | Equal variances not assumed | | | .102 | 82.355 | .919 | .02 3 | .22 3 | | .465 |

II. Appendix B – Questionnaire Used

Survey on IT Project Managers' Job Satisfaction in Abu Dhabi Government Entities

Confidential

Dear participant

Thank you for your participation in this survey of IT Project Managers' Job Satisfaction in Abu Dhabi Government Entities. I am currently pursuing a Master Degree in Project Management at the British University in Dubai and working on my research. I highly appreciate your sought after contribution.

The objective of this particular survey is to assess the level of job satisfaction for IT project managers in Abu Dhabi Government Entities. It is hoped that by knowing the level of satisfaction, Abu Dhabi recruiters, organizations and IT Departments can make strategic and tactical informed decisions to improve the wellbeing of IT project managers.

Please note that there is no right or wrong answers. What we need is the perception of your job satisfaction.

All your responses will, of course, remain confidential and will not be used for any other purpose besides this study.

Your cooperation is highly appreciated.

Yours faithfully

Mansour Ahmed Al Ketbi Master in Project Management The British University in Dubai

Survey on IT Project Managers' Job Satisfaction in Abu Dhabi Government Entities - Confidential

Part 1

| 1. Gender: Male | Female |
|---------------------------------|------------------------|
| | |
| 2. Age: | |
| Less than 25 | Between 25 and 30 |
| Between 31 and 35 | Between 36 and 40 |
| Between 41 and 45 | Between 45 and 50 |
| Between 51 and 55 | Between 55 and 60 |
| More than 60 years (State how | many.) |
| | |
| | |
| 3. Years of experience: | |
| Fewer than 5 | Between 6 and 10 |
| Between 11 and 15 | Between 16 and 20 |
| Between 21 and 25 | Between 26 and 30 |
| More than 30 years (State how a | many.) |
| | |
| 4. Your educational level: | |
| High school diploma | Diploma |
| Bachelor's degree | Higher diploma |
| Master's degree | PhD |
| Other (Please specify): | |
| | |
| 5. Nationality: Emarati | Other (please specify) |
| , | |
| | |
| 6. Position Title: | 7. Organization Name: |

Part 2

| | | Not | Some | Ne | Impo | Very |
|----|---|-----------|-----------|-------|-------|-----------|
| | | Important | what | utral | rtant | Important |
| | | | Important | | | |
| 8 | Pay/compensation | 1 | 2 | 3 | 4 | 5 |
| 9 | Working conditions/working environment | 1 | 2 | 3 | 4 | 5 |
| 10 | Leadership/management | 1 | 2 | 3 | 4 | 5 |
| 11 | Relationship with co-workers/colleagues | 1 | 2 | 3 | 4 | 5 |
| 12 | Job characteristic | 1 | 2 | 3 | 4 | 5 |
| 13 | Organizational policies | 1 | 2 | 3 | 4 | 5 |
| 14 | Organizational structure | 1 | 2 | 3 | 4 | 5 |
| 15 | Opportunity for advancement/promotion | 1 | 2 | 3 | 4 | 5 |
| 16 | Organizational systems and processes | 1 | 2 | 3 | 4 | 5 |

Part 3

Please indicate the level of your satisfaction with your job towards the following:

| | | Not | Some | Sati | Ver | Extrem |
|----|---|-----------|-----------|-------|-----------|-----------|
| | | Satisfied | what | sfied | y | ely |
| | | | Satisfied | | Satisfied | Satisfied |
| 17 | The chance to work alone on the job | 1 | 2 | 3 | 4 | 5 |
| 17 | The enable to work afone on the job | 1 | 2 | 5 | т | 5 |
| | | | | | | |
| 18 | The chance to do different things from time to time | 1 | 2 | 3 | 4 | 5 |
| | | | | | | |
| 19 | The chance to be "somebody" in the community | 1 | 2 | 3 | 4 | 5 |
| 19 | The chance to be somebody in the community | 1 | Z | 3 | 4 | 3 |
| | | | | | | |
| 20 | The chance to do things for other people | 1 | 2 | 3 | 4 | 5 |
| | | | | | | |
| | | | | | | - |
| 21 | The chance to tell people what to do | 1 | 2 | 3 | 4 | 5 |
| | | | | | | |
| 22 | The chance to try my own methods of doing the job | 1 | 2 | 3 | 4 | 5 |
| | | | | | | - |
| | | | | | | |
| 23 | The chance to do something that makes use of my | 1 | 2 | 3 | 4 | 5 |
| | abilities | | | | | |
| 24 | The chances for advancement on this job | 1 | 2 | 3 | 4 | 5 |
| 2. | | 1 | - | 5 | · | e e |
| | | | | | | |
| 25 | Being able to keep busy all the time | 1 | 2 | 3 | 4 | 5 |
| | | | | | | |
| 26 | The competence of my supervisor in making | 1 | 2 | 3 | 4 | 5 |
| 20 | | 1 | 2 | 5 | • | 5 |
| | decisions | | | | | |
| 27 | Being able to do things that don't go against my | 1 | 2 | 3 | 4 | 5 |
| | conscience | | | | | |
| 28 | The way my job provides for steady employment | 1 | 2 | 3 | 4 | 5 |
| 28 | The way my job provides for steady employment | 1 | Z | 3 | 4 | 3 |
| | | | | | | |
| 29 | The way company policies are put into practice | 1 | 2 | 3 | 4 | 5 |
| | | | | | | |
| 20 | The maximum hass has $d = 1 = 0 = \dots = 1$ | 1 | 2 | 2 | Λ | E |
| 30 | The way my boss handles his/her workers | 1 | 2 | 3 | 4 | 5 |
| | | | | | | |
| 31 | The way my co-workers get along with each other | 1 | 2 | 3 | 4 | 5 |
| | | | | | | |

| 32 | My pay and the amount of work I do | 1 | 2 | 3 | 4 | 5 |
|----|--|---|---|---|---|---|
| 33 | The freedom to use my own judgment | 1 | 2 | 3 | 4 | 5 |
| 34 | The working conditions and environment | 1 | 2 | 3 | 4 | 5 |
| 35 | The praise I get for doing a good job | 1 | 2 | 3 | 4 | 5 |
| 36 | The feeling of accomplishment I get from the job | 1 | 2 | 3 | 4 | 5 |

Part 4

Please indicate the level of your overall satisfaction with your job:

| | | Not | Some | Sati | Ver | Extrem |
|----|-------------------------------------|-----------|-----------|-------|-----------|-----------|
| | | Satisfied | what | sfied | у | ely |
| | | | Satisfied | | Satisfied | Satisfied |
| 37 | Overall, I am satisfied with my job | 1 | 2 | 3 | 4 | 5 |