THE PERFORMANCE OF BUSINESS INCUBATION IN MALAYSIA
POLYTECHNICS ENTREPRENEURSHIP CENTRE (MPEC)

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UNIVERSITI TEKNOLOGI MALAYSIA
DIFFERENT PERSPECTIVES OF ORGANISATIONAL FACTORS IN SUPPORT OF KNOWLEDGE CREATION IN IRANIAN GOVERNMENT UNIVERSITIES

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To my beloved and supportive father and sister.

Thank you.
ACKNOWLEDGEMENT

In preparing this thesis, I was in contact with many people, researchers, academicians, and practitioners. They have contributed towards my understanding and thoughts. In particular, I wish to express my sincere appreciation to my main thesis supervisor, Professor Dr. Kamariah Ismail, for encouragement, guidance, critics and friendship. Without her continued support and interest, this thesis would not have been the same as presented here.

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A special thank my father and sister who has been my pillar of strength.
ABSTRACT

There has been an increased interest in business incubation programs due to the rapid growth of the business incubators in the developed and developing countries. Likewise, Malaysia has put forth the importance of entrepreneurship as the key driver to the nation economy development to achieve the Malaysia Vision 2020. In conjunction to this, Malaysia Polytechnics Entrepreneurship Centre (MPEC) was established to promote entrepreneurship to the Polytechnics students and business incubation program is one of the main program to realize their objectives. Therefore, 25 business incubators were established in the Polytechnics throughout Malaysia. However, there has been a lack of study towards the performance of business incubation program under the initiatives of the MPEC since its’ establishment in year 2012. Thus, the aim of this study was to understand the performance of the business incubation program. A conceptual framework of the measurement for the performance of the business incubation program was built and had identified seven key indicators as the measurement indicators. A qualitative method was used in this study through documents review and in-depth interviews with the MPEC manager and three selected incubator managers. The results provided support for the conceptual framework, with the emergence of other contributing factors towards the performance of the business incubation but those other factors being secondary to the measurement of the performance. An implication for business incubation program is that the systematic measurement indicators for business incubation performance can assist in decisions on the continuation, interruption or modification of incubator activities.
ABSTRAK

# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>CHAPTER</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECLARATION</td>
<td>ii</td>
<td></td>
</tr>
<tr>
<td>DEDICATION</td>
<td>iii</td>
<td></td>
</tr>
<tr>
<td>ACKNOWLEDGEMENTS</td>
<td>iv</td>
<td></td>
</tr>
<tr>
<td>ABSTRACT</td>
<td>v</td>
<td></td>
</tr>
<tr>
<td>ABSTRAK</td>
<td>vi</td>
<td></td>
</tr>
<tr>
<td>TABLE OF CONTENTS</td>
<td>vii</td>
<td></td>
</tr>
<tr>
<td>LIST OF TABLES</td>
<td>xi</td>
<td></td>
</tr>
<tr>
<td>LIST OF FIGURES</td>
<td>xii</td>
<td></td>
</tr>
<tr>
<td>LIST OF ABBREVIATIONS</td>
<td>xiii</td>
<td></td>
</tr>
<tr>
<td>LIST OF APPENDICES</td>
<td>xiv</td>
<td></td>
</tr>
</tbody>
</table>

1 INTRODUCTION 1
1.1 Introduction 1
1.2 Research Background 2
1.3 Problem Statement 3
1.4 Research Aim 5
1.5 Research Objectives 6
1.6 Research Questions 6
1.7 Research Scope 7
1.8 Importance of the study 7
1.9 Operational Definitions 8
2 LITERATURE REVIEW

2.1 Introduction 9

2.2 Definitions 9

2.2.1 Business Incubator 10

2.2.2 Business Incubation Program 11

2.2.3 Incubatee 11

2.3 The International Perspective 12

2.3.1 Business Incubation Generations 14

2.3.2 Business Incubator Classifications 16

2.3.3 The Stakeholder Roles 17

2.3.4 Business Incubation Phases 20

2.3.5 Life Cycle of Business Incubator 22

2.3.6 Business Incubator Models 24

2.3.7 Performance of Business Incubators 27

2.3.8 Key Outcomes of the Existing Business Incubation Models 33

2.4 The Malaysia Perspective 34

2.4.1 Business Generations in Malaysia 36

2.4.2 The Business Incubation Model 39

2.4.3 The Business Incubation Process 40

2.5 The Malaysian Polytechnics Entrepreneurship Centre (MPEC) 42

2.5.1 Special Projects on Incubation, Coaching and Entrepreneurship (SPICE) 43

2.5.2 The MPEC Business Incubation 44

2.6 Conceptual Framework 46

3 RESEARCH METHODOLOGY 49

3.1 Introduction 49

3.2 Research Design 49

3.3 Research Population 50

3.4 Methods of Data Collection 51

3.4.1 Interview Techniques 51

3.4.2 Interview Process 53
4 DATA FINDINGS
4.1 Introduction 56
4.2 Interviews 57
  4.2.1 MPEC Manager 57
  4.2.2 Incubator Managers 57
4.3 Results 59
4.4 Research Questions 59
  4.4.1 Research Question 1 59
  4.4.2 Research Question 2 61
    4.4.2.1 New Company Creations (Per Year) 63
    4.4.2.2 Amounts of grants / Funds received 65
    4.4.2.3 Development of Incubator in Life Cycle 67
    4.4.2.4 Occupancy Rate 68
    4.4.2.5 Average Length of Tenancy 70
    4.4.2.6 Training in Entrepreneurial Skills 71
    4.4.2.7 Strategic Alliances 73
  4.4.3 Research Question 3 75
4.5 Other Key Findings 82
  4.5.1 Business Incubation Program in
      Polytechnics Malaysia 83
  4.5.2 Sectorial Distribution 86
4.6 Summary 88

5 DISCUSSION
5.1 Introduction 90
5.2 Discussion of the Findings 92
  5.2.1 Key Indicators 92
  5.2.2 Performances 93
  5.2.3 Challenges of Business Incubation 97
## LIST OF TABLES

<table>
<thead>
<tr>
<th>TABLE NO.</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Diploma graduates’ employment status by type of Higher Education Institutions (HEI) in 2015</td>
<td>4</td>
</tr>
<tr>
<td>2.1</td>
<td>Sponsors and desired goals</td>
<td>17</td>
</tr>
<tr>
<td>2.2</td>
<td>Sponsors and desired goals</td>
<td>18</td>
</tr>
<tr>
<td>2.3</td>
<td>Principal characteristics of the main business incubation Models</td>
<td>19</td>
</tr>
<tr>
<td>2.4</td>
<td>Life cycle of business incubator</td>
<td>23</td>
</tr>
<tr>
<td>2.5</td>
<td>The measurement of assessment towards the performance of Business Incubators</td>
<td>31</td>
</tr>
<tr>
<td>2.6</td>
<td>Number of Business Incubators in Asia Pacific Region</td>
<td>35</td>
</tr>
<tr>
<td>2.7</td>
<td>Number of Incubators and Incubatees in Malaysia</td>
<td>36</td>
</tr>
<tr>
<td>2.8</td>
<td>Percentage of Incubator according to the incubation model</td>
<td>38</td>
</tr>
<tr>
<td>2.9</td>
<td>MPEC High Impact Projects</td>
<td>45</td>
</tr>
<tr>
<td>2.10</td>
<td>The measurement of assessment towards the performance of Business Incubators</td>
<td>47</td>
</tr>
<tr>
<td>4.1</td>
<td>Demographics of case study participants</td>
<td>58</td>
</tr>
<tr>
<td>4.2</td>
<td>New Company Creations (Per Year) Proof key findings</td>
<td>63</td>
</tr>
</tbody>
</table>
## LIST OF FIGURES

<table>
<thead>
<tr>
<th>FIGURE NO.</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Number of Business Incubators Worldwide</td>
<td>13</td>
</tr>
<tr>
<td>2.2</td>
<td>Evolution of the Business Incubator Model</td>
<td>15</td>
</tr>
<tr>
<td>2.3</td>
<td>Incubation Phases</td>
<td>21</td>
</tr>
<tr>
<td>2.4</td>
<td>Business Incubation Process</td>
<td>22</td>
</tr>
<tr>
<td>2.5</td>
<td>Costa-David, Malan, Lalkaka Model</td>
<td>25</td>
</tr>
<tr>
<td>2.6</td>
<td>Formula for business incubation performance</td>
<td>26</td>
</tr>
<tr>
<td>2.7</td>
<td>Hackett &amp; Dilts Business Incubator Model (a)</td>
<td>27</td>
</tr>
<tr>
<td>2.8</td>
<td>Hackett &amp; Dilts Business Incubator Model (b)</td>
<td>27</td>
</tr>
<tr>
<td>2.9</td>
<td>Generation of Incubation Centres Development</td>
<td>37</td>
</tr>
<tr>
<td>2.10</td>
<td>Top 10 Most Effective Incubation Centres in Malaysia</td>
<td>38</td>
</tr>
<tr>
<td>2.11</td>
<td>The Game of Entrepreneurship</td>
<td>40</td>
</tr>
<tr>
<td>2.12</td>
<td>Performance Criteria</td>
<td>42</td>
</tr>
<tr>
<td>2.13</td>
<td>SPICE program components</td>
<td>43</td>
</tr>
<tr>
<td>2.14</td>
<td>Key Indicators for Business Incubation Performance in MPEC</td>
<td>48</td>
</tr>
<tr>
<td>4.1</td>
<td>The numbers of registered companies</td>
<td>64</td>
</tr>
<tr>
<td>4.2</td>
<td>Funds budget allocation to MPEC</td>
<td>67</td>
</tr>
<tr>
<td>4.3</td>
<td>SPICE program components</td>
<td>68</td>
</tr>
<tr>
<td>4.4</td>
<td>Comparison charts of numbers of projects and total funds allocation</td>
<td>73</td>
</tr>
<tr>
<td>4.5</td>
<td>Business Incubators based on Zones</td>
<td>86</td>
</tr>
<tr>
<td>4.6</td>
<td>Sectorial Distribution</td>
<td>87</td>
</tr>
<tr>
<td>4.7</td>
<td>Sectorial according to Zones</td>
<td>88</td>
</tr>
<tr>
<td>5.1</td>
<td>Sectors Distribution according to the North, Middle and South Zones</td>
<td>99</td>
</tr>
</tbody>
</table>
### LIST OF ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARE</td>
<td>Coaching Towards Achieving Real Experience</td>
</tr>
<tr>
<td>DO IT</td>
<td>Develop Opportunity in Trading</td>
</tr>
<tr>
<td>ELEMENT</td>
<td>Experiential Learning to Enhance Marketability and Entrepreneurship</td>
</tr>
<tr>
<td>HEI</td>
<td>Higher Education Institutions</td>
</tr>
<tr>
<td>INVEST</td>
<td>Innovative Venture in Strategic Trade</td>
</tr>
<tr>
<td>IVM</td>
<td>Incubator Virtualization Model</td>
</tr>
<tr>
<td>KPI</td>
<td>Key Performance Indexes</td>
</tr>
<tr>
<td>MARDI</td>
<td>Malaysia Agricultural Research &amp; Development Institute</td>
</tr>
<tr>
<td>MOHE</td>
<td>Ministry of Higher Education</td>
</tr>
<tr>
<td>MOSTI</td>
<td>Ministry of Science, Technology and Innovation</td>
</tr>
<tr>
<td>MPEC</td>
<td>Malaysia Polytechnics Entrepreneurship Centre</td>
</tr>
<tr>
<td>MSC</td>
<td>Multimedia Super Corridor</td>
</tr>
<tr>
<td>MRM</td>
<td>Majlis Rekabentuk Malaysia</td>
</tr>
<tr>
<td>NBIA</td>
<td>National Business Incubation Association</td>
</tr>
<tr>
<td>MTDC</td>
<td>Malaysian Technology Development Corporation</td>
</tr>
<tr>
<td>SIRIM</td>
<td>Standard and Industrial Research Institute of Malaysia</td>
</tr>
<tr>
<td>SME</td>
<td>Small and Medium Sized Enterprises</td>
</tr>
<tr>
<td>SPICE</td>
<td>Special Projects on Incubation, Coaching and Entrepreneurship</td>
</tr>
<tr>
<td>SSM</td>
<td>Suruhanjaya Syarikat Malaysia</td>
</tr>
<tr>
<td>TPM</td>
<td>Technology Park Malaysia Corporation Sdn Bhd</td>
</tr>
</tbody>
</table>
LIST OF APPENDICES

<table>
<thead>
<tr>
<th>APPENDICES</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>List of The Polytechnic Business Incubators in Malaysia</td>
<td>112</td>
</tr>
<tr>
<td>B</td>
<td>Business Incubators based on Institutions</td>
<td>115</td>
</tr>
<tr>
<td>C</td>
<td>List of Entrepreneurship Programmes (Year 2013)</td>
<td>118</td>
</tr>
<tr>
<td>D</td>
<td>Interview Protocols for Incubator Managers</td>
<td>119</td>
</tr>
<tr>
<td>E</td>
<td>Interview Protocols for MPEC Manager</td>
<td>121</td>
</tr>
</tbody>
</table>
CHAPTER 1

INTRODUCTION

1.1. Introduction

The Malaysia Vision 2020 in becoming a high-income economy has aspired the Malaysia Prime Minister in putting forth that the entrepreneurship as the key driver to the nation economy development. Thus, in the Malaysia National Higher Education Action Plan 2007-2010, it is stated that the transformation in teaching and learning entrepreneurship among the students in higher learning institutions as one of the visions to be achieved by the higher learning institutions (MOHE, 2007). In conjunction with the initiatives from the Malaysia Prime Minister, the Malaysia Polytechnics Department has formed the Malaysia Polytechnic Entrepreneurship Center (MPEC) to act as a platform to promote entrepreneurship among the Polytechnics students. One of main mechanisms used is the business incubation program (MPEC, 2013).

Business incubation is an entrepreneurship development mechanism to increase the survival of the new firms and provide to their needs during their vulnerable stage, the early period (Grimaldi and Grandi, 2005; UKBI, 2012). The business incubators are mainly to provide emerging entrepreneurs with physical resources such as facilities and intangible resources such as knowledge sharing for job creation. Studies in United States have proven that business incubation is able to strengthen the local economies through the ninety percent survival rate of the tenants and clients in the business incubators (Info Dev., 2009; Al-Mubarak et al., 2010). There were
roughly 7000 incubators worldwide with 850 business incubators found in Western Europe (NBIA, 2016).

The key objectives of the business incubation were entrepreneurship, job creation, start-up company creations within the incubators and graduated companies (Al-Mubarki & Busler, 2011). MPEC has adopted the business incubation concept into the entrepreneurship program as a mean to encourage the Malaysia Polytechnic graduates to embrace entrepreneurship (MPEC, 2013). However, there was a lack of study on the performance of the business incubation program in MPEC. Hence, this study examines the performance of business incubation program in the Malaysia Polytechnic Entrepreneurship Center (MPEC).

1.2. Research Background

Polytechnics in Malaysia have high number of students which produces high number of graduates in various specialization fields ranging from management to technical. According to the report by MOHE (2015) on the Diploma graduates in Malaysia, it is reported that Malaysia Polytechnics was ranked third in the number of graduates with the total number of 25,168 students who graduated in year 2015 and also shown an increase of 35% graduates in year 2015 since year 2006 (MOHE, 2015).

The initial aim of the establishment of Polytechnics in Malaysia generally focuses on the technical education where Polytechnics are expected to produce skilled and semi-skilled workers in engineering and commerce sectors (Politeknik, 2009). However, Malaysia Polytechnics amended the education policy under the Transformation Polytechnic Education policy in building holistic graduates who are also well-versed in entrepreneurship (Politeknik, 2009). In 2013, MPEC was established to accelerate the entrepreneurship knowledge and skills to the polytechnic graduates through the comprehensive entrepreneurial activities and programs (MPEC, 2013).
This study was intended to enhance the understanding of the performance measurement of business incubation in Malaysia. The study also provided a basis for understanding the current performance of the business incubation program under the Malaysia Polytechnic Entrepreneurship Centre (MPEC) that had been implemented in 25 participating Polytechnics throughout Malaysia. The outcomes of this study are important for current and future business incubator research. Findings from this study allow the understanding of better incubation management practices that are able to help boost the entrepreneurship development in Malaysia whilst achieving the Malaysian Vision 2020.

1.3. Problem Statement

In 2010, the Malaysia Ministry of Education introduced new entrepreneurship development policy to all the higher learning institutions (MOHE, 2010). Therefore, in tandem to achieve key performance indicator, the Department of Polytechnic has established MPEC to further boost the entrepreneurship program development among the Polytechnics graduates (MPEC, 2013). The Malaysia Higher Education has outlined one of the vision of producing 5% of graduates in Malaysia to pursue entrepreneurship as their chosen career (MOHE, 2015).

However, previous studies showed that the Malaysian polytechnic students were not keen towards entrepreneurship (Mohd Zahari, 2010; Warman et. al, 2010; Mom & Khadijah, 2014). The main findings were that the graduates felt uncomfortable in pursuing the career of entrepreneurs and most prefer to have a secure income with existing companies (Zahari, 2010). This is proven from the MOHE Graduates Tracer Study 2015 as shown in Table 1.1 that reported of merely 3.7% with the total of 510 Polytechnics graduates were self-employed (MOHE, 2015). This figure shows that the aim of producing 5% entrepreneurs were not met and it further proves that there is a gap in implementation of Malaysia Polytechnics entrepreneurship program.
Table 1.1: Diploma graduates’ employment status by type of Higher Education Institutions (HEI) in 2015

<table>
<thead>
<tr>
<th>Employment Status (%)</th>
<th>Public Universities (n=7,226)</th>
<th>HEI Private (n=18,527)</th>
<th>Polytechnics (n=13,806)</th>
<th>HEI Others (n=932)</th>
<th>Overall (n=40,491)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permanent</td>
<td>32.0</td>
<td>41.9</td>
<td>47.3</td>
<td>40.3</td>
<td>41.9</td>
</tr>
<tr>
<td>Part Time</td>
<td>37.4</td>
<td>30.2</td>
<td>23.4</td>
<td>29.8</td>
<td>29.2</td>
</tr>
<tr>
<td>Contract</td>
<td>22.5</td>
<td>20.8</td>
<td>22.0</td>
<td>22.5</td>
<td>21.2</td>
</tr>
<tr>
<td>Work with family</td>
<td>4.4</td>
<td>3.9</td>
<td>3.6</td>
<td>3.4</td>
<td>3.9</td>
</tr>
<tr>
<td>Self-Employment</td>
<td>3.6</td>
<td>3.2</td>
<td>3.7</td>
<td>3.9</td>
<td>3.5</td>
</tr>
<tr>
<td>TOTAL</td>
<td><strong>100</strong></td>
<td><strong>100</strong></td>
<td><strong>100</strong></td>
<td><strong>100</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

Source: MOHE, 2015

Since the establishment of MPEC in 2013, there had not been a standard systematic measurement tools to measure the business incubation performance in Malaysia Polytechnics (MPEC, 2013). Various studies had been conducted on the entrepreneurial activities by MPEC (Indiran et. al, 2015; Mom, 2014; Isa, 2008; Nasrudin, 2012; Rahim et.al., 2015; Siti Noor et. al, 2010; Warman et. al., 2010; Zahari, 2010), however, there were a lack of study conducted solely on the business incubation program by MPEC. Therefore, this study is important to meet the gap found in literature concerning on business incubation program by MPEC and also to shed light on the entrepreneurship efforts commenced by the MPEC.

Additionally, MPEC had planned to develop a set of systematic measurement tool in measuring the business incubation performance (MPEC, 2013), therefore this study was in alignment as to propose the key indicators in measuring the performance of business incubation in Malaysia Polytechnics.

Therefore, the broad issue to be investigated is the performance of business incubation in MPEC. MPEC also has yet to have measuring tools for the
performance of the business incubation (MPEC, 2013). Therefore, this study would contribute directly to the issue by identifying the key indicators for business incubation performance in MPEC. Thus, this study has also discussed on the challenges faced by incubator manager in implementing the business incubation program to further understand the business incubation program in detail. By the end of this study, it is expected that these will have been established.

1.4. Research Aim

Due to the significance of entrepreneurship in shaping the future, the Ministry of Higher Education recently has outlined in the Malaysia’s Higher Education Blueprint (2015 to 2025) that the higher education institutions were to produce graduates with entrepreneurial mindset (MOHE, 2015). However, various studies (Zahari, 2010; Siti Noor et. al., 2010; Nasrudin, 2010; Isa, 2008; Warman et. al, 2010; Mom, M., & Khadijah, S., 2014) had conducted on entrepreneurship in Malaysia Polytechnics but there were lack of understanding on the business incubation program in Polytechnics. Therefore, this study is mainly dedicated on the business incubation programs that were conducted by Polytechnics in Malaysia under the initiatives of MPEC.

The aim of this study was to understand the performance of the business incubation in Malaysia Polytechnics. This study has also measured on the performance of the business incubation by MPEC. Thus, this study had identified the key indicators to measure the performance of business incubation program. The challenges in the business incubation programs were also discussed for a better understanding of the program.
1.5. **Research Objectives**

The business incubation program in Malaysia Polytechnics was supported by MPEC in the effort to boost the entrepreneurship among the graduates from Polytechnics in Malaysia (MPEC, 2013). This study focuses on the performance of the business incubation program in polytechnics initiated by MPEC. The MPEC manager and the Polytechnic business incubator managers were contacted prior the study and were agreeable to participate in this study.

The research objectives will be:

(a) To identify the key indicators used to measure the performance of business incubation program by MPEC

(b) To evaluate the performances of the business incubation program by MPEC.

(c) To identify the challenges of business incubation program in Malaysia Polytechnics.

1.6. **Research Questions**

The research questions developed for this study were:

*RQ 1:* What are the key indicators used to measure the performance of business incubation program by MPEC?

*RQ 2:* What are the performances of the business incubation program by MPEC?

*RQ 3:* What are the challenges of business incubation program in Malaysia Polytechnics?
1.7. **Research Scope**

The main focus of this study is on the performance of the business incubation in MPEC. This study focuses only on the business incubation programs initiated by MPEC. Therefore, the data gathered for this study consists of the 25 business incubation programs in Malaysia Polytechnics as shown in Appendix 2. This is to generate a more comprehensive view on the business incubation program by MPEC that is being implemented in the participating Malaysia Polytechnics. This study relies heavily on the data collected based on personal interviews, observations and personal research due to the lack of complete data from MPEC and the business incubators.

1.8. **Importance of the Study**

This study is a crucial part of the research process which ensures and reflects gaps and the significance of the study. This study starts with how the study will bridge the gaps, and followed by contribution to practitioner.

This study suggested that the main indicators of number new companies, number of grants/ funds, incubator development, occupancy rate, average length of tenancy, number of entrepreneurial trainings and numbers of strategic alliances between incubatees with other parties.

By measuring the performance of incubator activities, systematic measurement indicators for business incubation performance can assist in decisions on the continuation, interruption or modification of incubator activities.

Therefore, this study gives three main contributions:

(a) The research provides basic understanding on the incubation measurement used in Malaysia Polytechnic, and propose a better
monitoring model which can be applied by policy maker of entrepreneurship which is MPEC

(b) Structured measurement criteria/indicators can assist agencies in allocating award incentives. A lack of structured criteria may result in reduced award incentives and/or reduced nongovernment financial support, which can affect the motivation in entrepreneurship activities in a long run.

(c) It provides awareness on the importance of performance measurement of incubators.

1.9. Operational Definitions

Definitions of key terms for study include the following:

a. Business Incubator refers to the facilities that provide shared resources for young businesses to successfully produce independent incubatees (InBIA, 2016).

b. Incubatee was adopted in reference to the client and the tenant of the business incubators.

c. Business Incubation Program refers to the program that hasten the development of the incubatees through the resources found in business incubator (Lewis, Harper-Anderson & Molnar, 2011).

d. Performance is defined as “behaviors and actions that are relevant to the goals of the organization” (McCloy et. al., 1994).
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