

# The Comparative Analysis of Graduate Competency of School of Economics (STIE) SATRIA Before and After Working

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#### **ABSTRACT**

Competency is one of the valuable aspect to improve employee performance. The purpose of this research was to analyse the different competency of STIE Satria graduates before and after working. Participants were STIE Satria graduates during a period of 2015 to 2019. Number of samples was 75 respondents determined by purposive random sampling method. The competency variable was measured by an instrument developed by Spencer and Spencer. Data were collected by distributing a questionnaire and analyzed using paired t-test. The results showed that the competency of STIE Satria graduates before and after working were significantly different. Based on the result, STIE Satria needs to improve its graduate competency in order to meet the needs of company.

**Keywords:**Competency; Employee performance; Graduates.

## 1. Introduction

Management of human resources in the organization is a very important function in achieving organizational goals. The increasing competition between organizations and technological advances in the era of globalization requires every organization to have qualified and competent human resources in their fields. Graduate competency standards at the higher education level aim to prepare students to become members of society who have noble character, knowledge, skills, and attitudes to discover, develop, and apply science, technology and art that are beneficial to humanity.

Higher education institutions and industry have a very important relationship for the development of human resources in order to produce workers who are ready to work, innovative, productive, and skilful(Jailani Fadilah, 2011). AccordingtoVenkatraman and (2007), the relationship between institution and industry needs tobeflexibleintheaspectsof (1)themanagement of the process of education; (2)curriculum; (3) assessment; (4) method of delivery, (5) lecturer. careful planning all-round and Therefore, and cooperationwillleadtotheexpandingrequestsforqualityhumanresource(Hasnahet al., 2009; Saari and Rashid, 2013).

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STIE Satria is a private higher education that has produced 1600 graduates in management and accounting who have worked in various sectors, both government-owned and private companies. As a provider of human resources for stakeholders both from the profession, graduate users and the general public, STIE Satria has to improve graduate competencies in their fields so that they are ready to enter the work market. STIE Satria graduates' competencies include attitudes, knowledge and skills which are stated in the formulation of graduate learning outcomes.

Competence according to Spencer and Spencer (1993) is a person's underlying characteristics related to the effectiveness of individual performance in his work or individual basic characteristics that have a causal relationship or as a cause-effect with criteria that are used as a reference, effective or excellent or superior performance in the workplace or in certain situations. Competence is the basis for how the work is carried out by employees in accordance with the demands of the work for which they are responsible so as to achieve high performance.

Higher education graduates who are highly competitive in the world of work must have components of competence such as cognitive, affective, and psychomotor. Cognitive is an individual's intellectual ability to think, act and apply knowledge according to their field of expertise. Affective is the emotional or feeling segment of an attitude that is reflected in the statement. Meanwhile, psychomotor relates to the skills possessed by a person. Skills can be seen in accordance with a person's skills in behaviour (Spencer and Spencer (2010). These three components form an ability called competence.

Work can be interpreted as an effort made by humans to earn income in order to fulfil certain goals. A person works because there is something he wants to achieve and hopes that the work activities carried out will lead to a more satisfying state than the previous situation (Anoraga, 2014). Based on tracer studies, the competency of STIE Satria graduates is still not optimal yet, in terms of knowledge, expertise, and skills.

Based on the above description, the formulation of the research problem was any differences in graduate competencies before and after work. The objective of the research wastoanalysethesignificant difference of graduate competency before and after working.

#### 2. Literature Review

### 2.1 Competency

A competency is anindividual characteristic that can be measured or counted reliably and that can be differentiatesignificantlybetweensuperiorandaverage shownto performers, or between effective and in effective performers. Meanwhile, competency can be described as a set of behavior patterns that an incumbent need to bring to a set of the described as a set of behavior patterns that an incumbent need to bring to a set of the described as a set of behavior patterns that an incumbent need to bring to a set of the described as a set of behavior patterns that an incumbent need to bring to a set of the described as a set of behavior patterns.positioninordertoperformitstasksandfunctionsinthedeliveryof desiredresultsor outcomes(Woodruffe,1992; Bartramet al.,2002; Vathanophas and Thai-Ngam, 2007). Spencer & Spencer (1993) stated that competency is a fundamental characteristic that affects individual's way of thinking and acting, as well as facing all situations encountered, and surviving in the long phase life human beings. Competencyas" anunderlying characteristic of criterion-referencedeffectiveand/orsuperiorperformanceinajoborsituation". causallyrelatedto Underlying characteristic means the competency is a fairly deep and enduring part of a person's personality and can predict behavior in a wide variety of situations and job tasks. Causally related means that a competency causes or predicts behavior and performance. Criterion-referenced means



that the competency actually predicts who does something well or poorly, as measured on a specific criterion or standard.

(1993)identified fivetypesofcompetency Spencer & Spencer self-concept,knowledgeandskills.Firstly,motivesarethe characteristics consisting of motives, traits, thingsthatan individual consistentlythinksaboutor wantsthatstimulateaction. Motives drive, direct and select behaviortowardcertainactionsor goalsandawayfromothers. Secondly, traits are physical characteristicsand consistentresponsesto information. Thirdly, self-conceptis anindividual'sattitudes, values or selfimage.Fourthly,knowledgeistheinformationthat anindividualhas inspecificcontentareas. Finally, skillis the ability toperforma certain physical or mental task. Knowledgeand skill competencies tend visible and relativelysurfacecharacteristics, whereasself-concept, traits and motive competencies aremorehidden, deeperandcentralto personality.Surfaceknowledgeandskill competenciesarerelativelyeasyto themostcost-effectivewayto develop, and training is securethoseemployeeabilities(Spencer&Spencer,1993).

Twenty generic competency from competence of work (Spencer and Spencer, 1993) are as follow: achievement orientation, concern for order; initiative, information seeking, interpersonal understanding, costumers service orientation, impact and influence, organizational awareness, relationship building, developing others, directiveness, teamwork, team leadership, analytical thinking, conceptual thinking, expertise, self-control, self-confidence, flexibility, and organizational commitment. According to Spencer and Spencer, competencycan beorganized from 5 dimension of competencies:motives,self-concept,knowledge,skills,andability. However according to Vathanophas and Thai-Ngam (2007), competency is divided into motives, self-concept, skills,andability.

## 2.2 Value of Competency

The value of competency has been widely explored. The results of the study suggested that six human results of the met.Theseconditionswerea ourceconditions haveto be performanceorientedculture,lowturnover,high levelsofemployeesatisfaction,a cadreofqualifiedreplacements, effective investment in employeecompensation and development, and the use of institutionalcompetencies (successfactors)in employeeselectionandperformanceevaluationprocesses(Berger&Berger,2004). Mitraniet al.(1992)mentionedtheneedforcompetencyandpredictthat organizationsof thefuturewillbe built aroundpeople.

competencyapproachinselection and assessment is based on classifying, identifying, The measuring individual differences for particular work-related constructs that are relevantto successfuljobperformance(Bartram, 2004). CummingsandWorley(2001) similarlystatedthat organizationalchangesfrequentlydemandnew knowledge, skills and behaviorfromemployees. They argue that in many cases changes could not be implementedunlessemployeesgainednew competencies. They also suggestthat change agentsareneededto providemultiplelearningopportunities, such as traditionaltraining programs, on-the-job counselling and coaching, and experiential simulations, covering bothtechnicalandsocialskills, and that it must be ensured that such learning occurs.



# 2.3 Impact of Working on Employee Competency

Work can be interpreted as an effort made by humans to earn income in order to fulfill certain goals. A person works because there is something he wants to achieve and hopes that the work activities carried out will lead to a more satisfying state than the previous situation (Anoraga, 2014).). According to Spencer and Spencer (2010) a person who is competent to do the job skills easy, fast, and intuitive and very rarely or never make mistakes Training and development is a company program carried out for new employees that aims to improve influencing employeeperformancethroughthedevelopmentofemployeeknowledge, skills, ability, competencies and behaviour (Appiah, 2010). The employees valued work experience as the main source of their competence and their competence mainly through learning at work. Based on the above description, the research hypothesis was that competency of graduate of School of Economics Satria beforeandafter workingwas significantly difference.

# 3. Research Methodology

Participants were selected from 1600 graduates of School of Economic Satria Purwokerto. Number of samples were 75 graduates in last five years who had been working determined by purposive random sampling method. This research conducted by a survey method with questionnaire as a survey instrument. Competency of graduate of School of Economics Satria was measured using twenty generic competency proposed by Spencer and Spencer (1993) as the most widely used in organization. Five dimentions namely knowledge, skill, motive, trait, and self-concept were measured using a 5 point scale by Likert. First step validity, reliability and normality test analysis was conducted to check stability, consistency, and normality of measurement. Furthermore, the main analysis used paired t test method to determine differences in graduate competencies before and after work.

### 4. Results

# 4.1 Characteristic of respondent

Table 1 showed the age composition of the respondents consisted of 40% of younger than 30 years, 45% of 30-35 years old, and 15% of older than 35 years. Gender of the respondents was 48% males and 52% females According to workplace, 27% respondents worked in public companies, and 63 % worked in private companies.

Table 1. The characteristics of the respondents Source: DataProcessed, 2021

Items	Groups	n	(%)
	Below 30	30	40
Age	30 - 35	34	45
	Older than 35	11	15
Gender	Male	36	48
	Female	39	52
Workplace	Public company	20	27
	Private company	55	73

# 4.2 ValidityTest

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By comparing correlationindexin Pearson ProductMomentwithsignificance levelof5%, the correlationvalueshouldbeabove0.227. The result showed that the correlation indexisgreater than 0.227 and therefore the data is considered as valid.

# 4.3 ReliabilityTest

Table 2 showed the reliability testused Alpha Cronbach.IfAlpha is more than 0.6then itisreliable. The resultshowed thatAlphaCronbachis0.874whichwasabovethe acceptancelimitof0.6. Therefore, the data is reliable.

Table2.ReliabilityStatistics Source: DataProcessed, 2021

	Cronbach's Alpha	nof
Cronbach's	Basedon	Items
Alpha	Standardized	
	Items	
0.874	0.876	20

### 4.4 NormalityTest

Toidentifythenormalitytest,thetableofonesampleKolmogorovSmirnovtestwillshowsthenormality of the data. One sample Kolmogorov Smirnov is one of the nonparametric tests to analyse the normality distributed or not. Resultshows the value of Kolmogorov Smirnov of Pre Workingis 0.190. The data of Pre Workingis greater than 0.05 (p>0.05). It means that the data is normally distributed. The value of Kolmogorov Smirnov of PostWorkingis 0.190. The data of PostWorkingwasgreater than 0.05 (p>0.05). It means that the data was also normally distributed.

### 4.5 Paired sample T- Test

Pairedsamplet-testisa statisticaltechnique thatis usedtocompare twopopulation means in the case of twosamplesthatarecorrelated. Pairedsamplet-testisused in 'before-after' studies, or when the samples are the matched pairs. Determine whether there is a significant difference between the average values of the same measurement made under two different conditions.

Themeanscoresbeforeandafterworking are being compared inorder to find the difference or correlation. Table 3 showed themean and standard deviation. The score pre working was 3.3424 and score postworking was 3.8284. These results indicated that the postworking mean score washigher than the pre working. Table 4 showed means score of twenty items of competencies before and after working.

Datawere analysedbydescriptive statistics and the interpretationforthemeanmodifiedbyLandall(1997) in Saari Rashid (2013)and withthemeanvalue1.0to2.33 =lowlevel,2.34to3.67=moderatelevel and 3.68 to 5 = highlevel. The correlation of pretraining and posttraining was 0.217 which means there was a strong positive correlation among all variables.

Table3.Paired SampleStatistics Source: DataProcessed, 2021

		Mean	n	Std.	Std.Error
				Deviation	Mean
Pair 1	Post Working	3.8284	75	0.2106	0.0243



Pre Working 3.3424 75 0.3430 0.0396

Table4:Mean score,standarddeviationandlevelofcompetency of graduate before and after working Source: DataProcessed, 2021

Items of competency	Mean	s.d.	Level	Mean	s.d	Level
	Before	Before		After		
Knowledge in science field	3.74	0.6746	High	3.85	0.5011	High
Knowledge in general science	3.04	0.6711	Moderate	3.41	0.5948	Moderate
Conceptual thinking	3.71	0.7145	High	4.01	0.8015	High
Analytic thinking	3.67	0.7005	Moderate	3.81	0.7968	High
Expertise in field	3.05	0.6954	Moderate	3.55	0.5017	Moderate
Leadership	3.92	0.7490	High	4.18	0.6889	High
Work in team	3.96	0.8127	High	4.26	0.7593	High
Communication	3.62	0.7843	Moderate	3.63	0.7221	Moderate
Achievement orientation	3.18	0.7478	Moderate	3.83	0.6127	High
Organization awareness	3.08	0.8180	Moderate	3.92	0.7352	High
Organizational commitment	3.14	0.7831	Moderate	3.94	0.7682	High
Long live learning	3.01	0.7621	Moderate	3.56	0.7540	Moderate
Self confident	3.13	0.7039	Moderate	3.83	0.6279	High
Self control	3.09	0.7198	Moderate	3.91	0.6717	High
Initiative	3.18	0.7478	Moderate	3.54	0.7322	High
Interpersonal understanding	3,02	0.8049	Moderate	3.82	0.7877	High
Costumer orientation	3.13	0.6844	Moderate	3.92	0.5240	High
Developing other	3.01	0.7069	Moderate	3.60	0.5445	Moderate
Flexibility	3.88	0.8536	High	3.91	0.7711	High
Relation building	3.86	0.8436	High	4,08	0.7741	High
OverallMean	3.34	0.3430	Moderate	3.82	0.2106	High

Table 5. Paired Samples Test Source: DataProcessed, 2021

									Sig. (2-
			Paire	d Difference	t	df	tailed)		
				Std.	95% Con	fidence			
			Std.	Error	Interval of the				
		Mean	Deviation	Mean	Difference				
					Upper	Lower			
Pair 1	Post	<u>-</u>		-	,	<del>-</del>		=	-
	Work	0.4860	0.2702	0.03121	0.4229	0.5481	15.574	74	0.000
	- Pre	0.4800	0.2702	0.03121	0.4238	0.5481	13.374	/4	0.000
	Work								

Source: DataProcessed, 2021

Table5showed the significance of paired samples test of 0.000. If the significance value is less than 0.05 (<0.05), there is a significance difference, it means that there was a significance difference in graduate competency before and afterworking. The mean column displayed the average difference of pre working and post working with value of 0.4860. The standard deviation showed a value of 0.2702. This standard error mean was 0.03121. The 95% Confidence Interval of the Difference provides an estimate of the boundaries between which the true mean difference



liesin95% of all possible random samples of 75 respondents similar to the ones participating in this research which the lower value was 0. 5481 and upper was 0.4238. In the tcolumn, the tvalue was greater than table (1.650) with 5% of significant level which was 15.574. Therefore, the hypothesis was accepted which means there was a significant difference in graduate competency measured by working experiences.

#### 5. Discussion

Education institution and company can improve the quality of the human resources in a various way. Education institution can manage the process of education, improving the curriculum, assessment, methodof delivery and developing lecturers. The companyconductedavarietyofwaystoimprovethequalityofemployees,especiallyinthedevelopment ofskillsthat existwithineachofthem. Human resources development is an important thing that aims toachieve success, likeeverycompanydo. Todevelopperformance of employees, the companymakea one mannerthat believedcapabletocreateahumanresourcesthatreliable,haveskilledandabletoworkwell alsohaveagoal to achievecorporatesuccess. The companytook one of the programs that are believed to improve the quality of employeesanddeveloptheperformance that exist within them. The resultofpairedsample testshowed thatthere was asignificant difference in before and after working. It means thatthe graduates competency before and afterworking was different. Graduates cannot do their jobeffectively before working, but employees are more capable of doingtheir jobsandcan developtheir ability in order toreach the company success after working.

#### 6. Conclusion

Aftercarefully examining all the given result, it can be concluded that:

- Before working, graduates of School of Economics Satria do not have work experience and have not participated in training and development programs carried out by the company so that their competence is not maximized.
- Afterworking, graduates of School of Economics Satria has had a period of service and participated in various training and development programs carried out by the company so that they easierin conducting their jobs.

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