Rachmad Budi Santoso. 2015. *Pembuatan Tools Untuk Pengukuran Tingkat Kapabilitas Proses Tata Kelola TI Pada Domain Build, Acquire and Implement COBIT 5*. Skripsi ini di bawah bimbingan Eva Hariyanti, S.Si., MT dan Drs. Eto Wuryanto, DEA. Program Studi S1 Sistem Informasi. Fakultas Sains dan Teknologi. Universitas Airlangga.

ABSTRAK

Pengukuran tingkat kapabilitas teknologi informasi (TI), memerlukan *tools* untuk mempermudah proses pengukuran. Penelitian ini bertujuan membuat *tools* yang digunakan untuk mengukur tingkat kapabilitas yang dapat membantu meringankan proses pengukuran pada audit sistem informasi berdasarkan COBIT5 Domain *Build, Acquire and Implement* (BAI).

Pada peneltian ini terdapan 4 tahap yang dilakukan dalam pembuatan *tools*. Tahap pertama analisis terhadap Domain BAI pada COBIT5 dan *Process Capability Indicators*. Tahap kedua melakukan perancangan dan pembangunan *tools* berdasarkan hasil analisis. Tahap ketiga melakukan implementasi pembangunan *tools* menggunakan fitur yang ada pada *spreadsheet*, dan tahap terakhir melakukan uji coba dan evaluasi *tools* terkait konten, antarmuka, fungsional dan operasional pada Direktorat Sistem Informasi Universitas Airlangga. *Tools* yang dibangun nantinya dapat menghasilkan *output* berupa nilai tingkat kapabilitas dan saran perbaikan untuk mencapai tingkat kapabilitas yang diinginkan.

Hasil uji coba yaitu 90% responden menyatakan konten pertanyaan dan struktur pada *checklist* jelas dan mudah dipahami serta *tools* sudah membantu dalam proses pengukuran tingkat kapabilitas. Kemudian sebanyak 85% responden menyatakan bahwa *tools* memiliki tata peletakan dan pewarnaan yang mudah dipahami dan sesuai dengan penggunaannya serta navigasi *tools* yang mudah untuk dipahami. Selain itu juga sebanyak 75% responden menyatakan bahwa hasil perhitungan dari *checklist* sesuai dan akurat serta informasi terkait saran tindakan perbaikan yang dihasilkan oleh *tools* mudah dipahami oleh responden/pengguna.

Kata Kunci: COBIT 5, *BAI ,* Tingkat Kapabilitas, Panduan Umum Tata Kelola TIK Nasional.

Rachmad Budi Santoso. 2015. Tools Development For Capabilities Of Management Process Measurement In Build, Acquire, and Implement Domain COBIT 5. This undergraduate thesis was under guidance by Eva Hariyanti, S.Si., MT and Drs. Eto Wuryanto, DEA. Majors of Information Systems. Faculty of Science and Technology. Airlangga University.

ABSTRACT

Capabilities level measurement of information technology (IT), tools were needed to facilitate a measurement process. This research goal was to measure the level of capability that could help easing the process of measurement on the information systems audit based on COBIT5 domain Build, Acquire and Implement (BAI).

There were 4 steps done in tools manufacturing. First, analysis to the Domain BAI on COBIT5 and Process Capability Indicator. Second, tools designing and manufacturing were done based on analysis result. Third, implement of tools manufacturing using features on the spreadsheet were done. Last, tools testing and evaluation of its content, interface, fuction and operational at DSI Airlangga University was done. The tools would be able to generate output as value of the level of capability and suggestions for improvement to achieve the desired level of capability.

The results of trials showed that 90% of respondents said that the content of the questions and structure on the checklist were clear and easy to understand, also the tools helped in the process of measuring the level of capability. Then, 85% of respondents stated that the tools' laying and staining procedures were easy to understand and in accordance with its use and navigation tools that were easy to understand. Next, 75% of respondents stated that the calculation from the checklist was appropriate and accurate, the information related to remedial actions generated by the tools easily understood by respondents / users.

Keywords: COBIT 5, *BAI , Capability Level*, *General Guidelines for National ICT Governance*.