

EVALUATION OF THE COMPUTER SYSTEM AND RISKS OF THE TECHNOLOGY OF THE INFORMATION OF PERUVIAN ENTITIES

Mercedes Susana Bustos Díaz

VOLCAN CIA. MINERA SAA
mbustos@volcan.com.pe, msbustosd@hotmail.com

Abstract:

In this paper we summarize the study done using COBIT (Control Objectives for Information and related Technology) as a model for auditing the management and control of information systems, the Maturity Model to measure the degree of development of the processes of the organization and COSO which is a methodology for assessment and risk analysis.

Of the study, we found weaknesses in control systems and services, for which corrective actions were made (over 40 technical recommendations). Findings suggest the need for the entities implement the technical recommendations that were structured in an IT improvement plan (2008-2011 / 2010-2012) in the medium term, for achieve the reach for CMMI maturity level 3, in the future and achieve the maturity level 5, which will enable the organization optimize its performance in IT. The proposed plan is feasible in time and cost.

Keywords: Information Technology, Cobit Model, CMMI Maturity Model, Methodology Coso, Risk Analysis and Management, Innovation and Technology Management.