Risk Assessment Decision Matrix for Emergency Room’s Employee in a Turkey Case

A. Nilgun Kayadelen
Department of Industrial Engineering
Cukurova University
01330 Balcalı, Sarçam / Adana, Turkey
nkayadelen@student.cu.edu.tr

Piril Tekin
Department of Industrial Engineering
Adana Science and Technology University
01250 Sarçam / Adana, Turkey
ptekin@adanabtu.edu.tr

Abstract

The common definition used in the literature for the term "risk" is the probability of occurrence of an unwanted event/incident within a certain period of time. A comprehensive risk analysis is necessary for the identification of these unwanted events/occurrences, calculation of the severity degree of the concerned risk and determination of whether the risk is tolerable or not. While risk analysis is a must for all organizations, irrespective of the scale of organizations, the type of the enterprise is the determinant of the type of the risk analysis to be performed and accordingly the methodology to be used and development of the solutions for risks. In the case of healthcare organizations, risk analysis practices require special diligence, as it is very important for the health and safety of both patients and employees. For this reason, selection of the right methodology to be applied, correct identification of foreseen risks and correct categorization of these risks on the basis of their criticality degree are of paramount importance for hospital management. Under the scope of the present study, a risk assessment is conducted on the Emergency Room's (ER's) employee in a University Hospital of a University Hospital, in the guidance of Risk Assessment Matrix (L-Type Matrix) approach in the study seeking to serve to the above-mentioned purposes.

Keywords

Biography

A. Nilgun Kayadelen is a PhD candidate in Industrial Engineering at Cukurova University, Adana and Master of Science in Industrial Engineering in the Department of Industrial Engineering at Cukurova University, Adana, Turkey. She earned B.S. in Industrial Engineering from Cukurova University, Turkey. Her research interests include statistical quality control, big data analysis, data mining, mixture distributions, quality management systems, and simulation.
Piril Tekin is currently a fulltime research assistant in department of Industrial Engineering at Adana Science and Technology University, Adana and a PhD candidate in Industrial Engineering at Cukurova University, Adana. Ms. Tekin held a Master of Industrial Engineering at Cukurova University, Adana, Turkey and a Bachelor of Industrial Engineering degree at Cukurova University, Adana, Turkey. Ms. Tekin’s research interests are revenue management, retail pricing, accounting, simulation, mathematical modelling.