

عنوان مقاله:

Evaluating and Prioritizing Asset Management Excellence Model Based on Critical Criteria Using the Combination of DEMATEL and ANP Techniques

محل انتشار:

فصلنامه بررسی تجارت نفت، دوره 2، شماره 3 (سال: 1397)

تعداد صفحات اصل مقاله: 10

نویسندگان:

Manoucher Vahedi - *PhD Student, Department of Industrial Management, Islamic Azad University, Firoozkooh Branch, Firoozkooh, Iran*

Mohammad Mehdi Movahedi - *Assistant Professor, Department of Industrial Management, Islamic Azad University, Firoozkooh Branch, Firoozkooh, Iran*

خلاصه مقاله:

Today for installations management in equipment-based industries, such as oil and gas industry, the physical asset management development based on the ISO-55000 requirements is generally the most common issue in the world and particularly in Iran. Since this standard only expresses the requirements, many physical asset management excellence models have been designed by researchers or research institutes around the world to develop and strengthen physical asset management. Therefore, due to the diversity of models, organizations face problems of choosing a suitable model. Based on this issue, the main purpose and innovation of this work is evaluating and prioritizing popular and sometimes reference physical asset management excellence models according to 6 critical criteria based on DEMATEL and ANP techniques. Cost, risk, performance, sustainability, simplicity, and knowledge were identified as the critical criteria. First, 4 criteria were taken from the ISO-55000, and 2 critical criteria were then identified through interviewing oil and gas experts. The approach of this research is quantitative, and the method of data collection is descriptive-survey. Uptime, Institute of Asset Management (IAM), life cycle engineering (LCE), and asset integrity management (AIM) models are the main popular and/or reference physical asset management excellence models in the world. The finding shows that the IAM, LCE, AIM, and uptime models are respectively prioritized based on these critical criteria. Keywords: Physical Asset Management Excellence Model, ISO-55000 Standard Series, DMATEL, ANP

کلمات کلیدی:

Physical Asset Management Excellence Model, ISO-55000 Standard Series, DMATEL, ANP

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1130073>

