

## **Analysis and Estimation of the Agility Level in Petroleum Companies**

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### **Abstract**

Oil industry is becoming more competitive environment where the oil companies have to deal with multiple business challenges. Some of those challenges can be the unexpected oil prices with the customer demands where the companies have to continuously changing their production strategies to meet the new requirements.

Analysis and measuring the agility level in petroleum companies is very important to mitigate unexpected challenges. Agile systems in petroleum companies are considered as production and/or management philosophies that integrate the available production strategies, technology, people and organization management systems.

In this thesis, a conceptual model will be proposed to measure the agility level of the petroleum companies based on existing production strategies, level of qualifying human resources, technologies, and organization management systems. Three case studies will be presented to demonstrate the proposed issues through a set of questionnaire which is used for assessing the agility level in the studied companies.

The case studies will also provide the readers with an insight into each company. The assessment will estimate the agility level in the oil companies as well as some insight towards their adverse factors that require more focus to enhance the agility level. A comparison of the current agility level between the studied companies will be presented.

The need for further research in order to empirically establish and validate the attributes and indices of the agility measurement has also been discussed.