

Evaluation of Critical Factors in Implementation of Advanced Manufacturing Technologies

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ABSTRACT

The endeavour of the present study is to deduce the Critical factors in the implementation of advanced manufacturing technologies. The evaluation weights are ascertained by using Analytic Network Process (ANP), which is practised as a brawny multi-criteria decision making (MCDM) technique to resolve governmental, corporate as well as social decision issues. A research questionnaire for ANP was premeditated and utilised to procure the responses of the respondents. The respondents were professional experts of the manufacturing projects from Khodro Company, Iran. This study unveiled rich research result, most notably the Cost of product is the most critical criteria, followed by the Quality, Flexibility, and Delivery time in implementation of advanced manufacturing technologies while Product cost is the most important sub-criteria, followed by the Maintenance cost and Consistency. There are also other less important sub-criteria like the Time scheduling, Lead time and Conformance in implementation of advanced manufacturing technologies.

KEYWORDS: Advanced Manufacturing Technologies, Analytic Network Process, Multi-Criteria Decision Making, Iran

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