

## **Effective Utilization of Implementing TPM in Saudi Arabian Companies**

**Ahmed Aljabr, M.B.B.**

Doctorate Candidate, Manufacturing System Engineering  
Board Member, Smart Manufacturing and Lean Systems Research Group

A. Leon Linton Department of Mechanical Engineering

Lawrence Technological University

21000 W. Ten Mile Road, Southfield, Michigan, 48075

Tel: (248) 238-0586, Email: [aaljabr@ltu.edu](mailto:aaljabr@ltu.edu)

### **Abstract**

Total Productive Maintenance (TPM) is a maintenance program which involves a newly defined concept for maintaining plants and equipment. The goal of the TPM program is to markedly increase production while, at the same time, increasing employee morale and job satisfaction. TPM brings maintenance into focus as a necessary and vitally important part of the business. It is no longer regarded as a non-profit activity. Down time for maintenance is scheduled as a part of the manufacturing day and, in some cases, as an integral part of the manufacturing process. The goal is to hold emergency and unscheduled maintenance to a minimum. These days' companies are trying to integrate TPM because of the high impact and quick hit projects. This research will explain how TPM in Saudi Arabia can be increased by improving the productivity and quality in Saudi Arabian companies. We will use aspects and see how combining these approaches will help in increasing productivity. The important point to note here is that there will not be any compromise in the quality. The potential barriers in TPM can be overcome with the help of tools of Quality. For the companies in KSA, it is important to make sure that the qualities of products are improved. This is really important in order to improve the tarnished their image.