A Study of Maintenance Management Skills in Electronics Component Industry (Semiconductors)

Abstract

This paper presents a study of Maintenance Management Skills in Electronics Component Industry (Semiconductors) Integrated Circuit. The purposes of this research were to study maintenance management skills and create a proposal of maintenance management skills development training program for maintenance staffs. A total of 360 samples from 8 semiconductors companies were selected through the simple random sampling method. The instigated skills included 25 skills; 11 Technical skills, 8 Human skills and 6 Conceptual skills totally 139 assessment items with the reliability value higher than 0.9 on each aspect and 0.9958 overall.

It was founded that 8 skills were lower than 80 % of the industry requirement. They were Preventive maintenance and Break-down Maintenance skill, Ability Assessment skill, Role and Responsibility skill, Task Structure skill, Position Power skill, Cross Functional Peer skill and Decision Management skill.

It can be concluded that the training program of Maintenance management program is needed with the focus on Human skill and Conceptual skills especially on Preventive/Break-down maintenance skills.

Keywords: Maintenance, Management skills on Electronics Component Industry (Semiconductors) Integrated Circuit.