設備綜合效率改善之研究：半導體產業之個案探討

Wafer Foundry and Memory IC are two major driving forces for Taiwan'ssemiconductor manufacturing industry. In order to sustain continuationof improving the quality and productive efficiency in Taiwan, anOverall Equipment Effectiveness (OEE) evaluation system is introduced.By using this system, the causes of efficiency losses are analyzed andclassified to provide effective way of tracking the productivity andthe problems are pointed out together with the activities ofimprovement to be carried. In this study, world ranking famous WaferFoundry Company T is taken as experience case. From the experience inT Company, an OEE system is established; the effective index forperformance evaluation is provided to clearly analyze the causes ofefficiency losses that have to be improved. First the status andmanufacturing process of semiconductor industry is introduced; thecompetitive environment is analyzed. Next, the method of implementingOEE system is presented from system architecture, equipment automationand data structure three aspects. Then T Company is taken asillustrative example to show actual improvement of OEE. Theconclusions and the suggestion to industry are given in the last,which is worthy reference for practical application.