

**ZERO DEFECT:
EVALUATION ON IMPLEMENTATION IN POWER
SEMICONDUCTOR DEPARTMENT OF INFINEON
MALACCA**

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ABSTRACT

According to the topic chosen, Zero Defect is one of the quality tools that is been implemented in Infineon Technologies Malacca. Infineon Technologies has been trying to achieve Zero Defect in their production in order to compete in the rapid technology changing of Semiconductor market. Thus, from applying Zero Defect, not only it will increase the quality of their production, but also it can help to increase production and reduce cost.

Research objectives for this study undertaken are to determine the most frequent Zero Defect activities been done in Power Semiconductor Department, to identify the major contributors of Zero Defect, to determine are there any relationship between all the predicted variables and Zero Defect, to determine the need of these quality tools implementation among Power Semiconductor (PS) department employees, and also to recommend improvements or solutions in this research The scope of study is mainly focusing on the evaluation of Zero Defect implementation in the PS Production Department of Infineon Technologies Malacca

There are 6 hypothesis testing, which is focusing on the testing on the direct relationship between the dependent variable (Zero Defect) and all its independent variables (all the predicted quality tools that contribute to Zero Defect).

Then the data has been collected from 250 respondents which has been given a set of 60 questions to be answered accordingly. From these data then it has been analyze and interpetate accordingly.

1.1 Company Background

Infineon Technologies Malacca is one of the largest Semiconductor manufacturing of Infineon worldwide. It is hosting over 13 % of Infineon' s total worldwide manpower, with almost up to 6000 workers as at August 2006. The sale itself represents 1.4 % of the total Malaysian export. Infineon Technologies Malacca also responsible in assembling and testing almost 10 billion semiconductors per annum, with more than 30 years of manufacturing experience in Malaysia. It's accumulated investment is more than RM 4 billion. Infineon Technologies Malacca also has the most highest and modern technology development in Assembly and Test. The product of Infineon Technologies are use in wireless and wire line communications, automotive, industrial, computer, security and chip-card memory markets.

1.1.1 Vision

- ❖ To create Semiconductor Solutions enabling the Technology Lifestyle of the individual in the 21st century.

1.1.2 Mission

We aim to create and maximize values for their customers, shareholders, and employees: