



<b>Independent Study Title</b>	Reduction of Defect Products in a Gem Ring Production
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### **ABSTRACT**

The objective of this study was to reduce the defect of the rings manufacturing process production (diameter 55 mm.). There were four processes of manufacturing production; casting, decoration burnish and coating. According to a primary study, decoration process was found a lot of defect rings. Three types process of defect in this process were studied. There were 1) precious stone had been not fitted with the bezel of the ring, 2) precious stone chipped off.

Check sheet, Pareto chart and Fishbone diagram were used and analysis in this study to find solutions to the problems. The decoration process was focused and studied. The results were shown that the average percentage of defect rings before improvement was 3.75 piece/month and the average percentage of defected rings after improvement was reduced to 1.25 piece/month.

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