**ABSTRACT** 

ASTIGA is a micro-enterprise engaged in the production of leather jackets, located

in Garut. Although it has a strong reputation, data from 2024 shows that out of a

total of 3,138 jackets produced, 150 defective units reached customers. This results

in a defect escape rate of 4.78%, with a monthly average of 5%. Furthermore, from

a total of 286 defective products identified (consisting of 136 detected and 150

undetected), the defect detection rate was only 47.55%, with a monthly average of

46.96%. These figures indicate weaknesses in the final inspection system, posing

risks of financial loss and reduced customer trust. This study aims to design

improvements to the inspection process to reduce the number of undetected

defective products, using the PDCA method and the Business Process Improvement

(BPI) approach. Process evaluation refers to the ISO 9001:2015 standard,

particularly clauses 4.4.1, 4.4.2, and 8.1, to assess compliance with quality

management principles.

The analysis revealed that the main contributing factors to the high number of

defects were the lack of operator accuracy, the absence of a written Standard

Operating Procedure (SOP), and incomplete inspection information. To address

these issues, an inspection SOP, inspection checksheet, and operator training

program based on Critical to Quality (CTQ) attributes were developed. These

proposed improvements are expected to enhance inspection accuracy, reduce the

number of defective products reaching customers, and strengthen the quality control

system at UMKM ASTIGA.

Keywords: Inspection process, product *Defect*, Business Process Improvement,

SOP, ISO 9001:2015, CTO

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