

ABSTRACT

This study was conducted at Capiz State University Sigma Satellite College, Sigma Capiz, during the semester S.Y 2022-2023. The main objective of the study was to determine the acceptability of the developed valve spring compressor. In analyzing the data, the mean and Analysis of Variance (ANOVA) were the statistical tools used. The evaluators of the study were limited to fifteen people, composed of five Automotive Technology Students, Five Instructors of Capiz State University Sigma Capiz and five Automotive Mechanics who have recognizable background in Automotive Technology. The result of the study implied that in terms of affordability, design, efficiency, effectiveness, and general acceptability were perceived by the evaluators. Based on the result of the study, the respondents or evaluators consider the valve spring compressor a tool that is very useful in removing valve springs. The affordability of valve spring compressor result reveal that based on the respondent's evaluation of the product; automotive student's evaluation had the highest mean and verbal interpretation of "Extremely Affordable". In terms of faculty evaluation with the verbal interpretation of "Extremely Affordable", while Auto Mechanics Experts' evaluation with the verbal interpretation of "Extremely Affordable". The design of the valve spring compressor. In Automotive student's evaluation had the highest mean score of 5.00 with the verbal interpretation of "Extremely unique". This was followed by faculty member evaluation had a mean score of 4.95 with verbal interpretation of "Extremely unique". While the Automotive mechanics experts' have a mean score of 4.90 with verbal interpretation of "Extremely unique". The efficiency of the valve spring compressor. Automotive students' evaluation had the highest mean score of 5.00 with verbal interpretation of "Extremely Efficient". This was followed by the Faculty member evaluation, which obtain a main score of 4.95 with the verbal interpretation of "Extremely Efficient", while the Automotive. The effectiveness of the valve spring compressor. Results revealed that based on the respondent's evaluation of the product, Faculty, and Automotive student evaluation got mean score of 5.00 with verbal interpretation of "Extremely Effective". While the Automotive Mechanics Expert evaluation had a mean score of 4.95 with verbal interpretation of "Extremely Effective".

Keywords: *Valve Spring Compressor, Development*