

Development and Usage of Refrigeration and Air Conditioning Trainer for Beginners

Amelito B. Sungahid

Faculty, Refrigeration and Air Conditioning Technology,
College of Technology, Surigao Del Norte State University, Surigao City, Philippines

Abstract: *This study aimed to evaluate the effectiveness of the developed trainer for refrigeration, which is constructed through the specifications of the users. It focuses on the primary usage, functionality, applicability, and safety aspects of the project, as well as how it effectively assists people through innovative means. The project is tested out of 15 respondents that has knowledge regarding refrigeration and air-conditioning, enough to understand the flow of the project its material used, functions, usage and how it works. Based on the comprehensive evaluation the following key findings have emerged. Functionality Excellence, The prototype trainer demonstrates exceptional functionality, achieving an excellent rating. This indicates a high level of effectiveness in performing various task/activity in refrigeration works. Applicability of the device exhibits versatility with high ratings. Its adaptability to diverse environments underscores its broad applicability. User safety of The trainer dependability is further enhanced by the removal of potentially hazardous materials and the addition of overload protection.*

Keywords: Trainer, Refrigeration and Air-Conditioning, Development and Usage, Prototype