

**ORIGINAL RESEARCH**

**The Role of Tvet Programs in Attaining Sustainable Development Goal 12: A Sustainable Food Processing Practices in Selected Tvet Colleges, Kenya.**

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**Abstract.**

Sustainable Consumption and Production (SCP) are the important elements to strive the sustainable development in Agenda 2030. The unacceptable food losses and future uncertainties stemming from population growth, natural disasters, and scarcity of natural resources lead to the evaluation of current practices on sustainable food processing. As Technical and Vocational Education and Training (TVET) is an institution that can accelerate sustainable development, this study is to seek sustainable food processing practices among the students of the TVET program and the role of the TVET program to achieve SDG 12. This study was conducted using a deductive descriptive design through a cross-sectional survey questionnaire. A total of 298 respondents were analyzed for the mean value and standard deviation using the instrument of sustainable food processing (i-KProM) that have been proven the validity and reliability. The result revealed moderate practices (3.67) among the respondents which included 3 sub-constructs of practices which are processing practices at high level (4.20), pre-processing practices (2.97) and post-processing practices (3.17) at a moderate level for each sub-construct. The implications show that the need to emphasize the practices of optimization of the natural sources during the product production followed by avoiding improper product handling. Secondly, the solid waste products during the processing activities must be managed proactively to reduce the environmental effect. Finally, this research emphasizes the role of the TVET program in achieving SCP that could accelerate the evaluation of sustainable practices among the TVET students at all stages of education.

**Keywords:** Sustainable food processing, technical and vocational training and education, sustainable practices.