

Development of contextual chemistry learning resources to support chemical literacy of vocational students

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ABSTRACT

This study aims to compile and validate contextual chemistry-based learning resources to support the chemical literacy of vocational students. This contextual based learning resource was designed for food additives and housekeeping sets related to chemicals in the bathroom topic for tourism specific expertise students. An exploratory mixed method design with an instrument development model was adopted in this study. The research procedure consists of four steps include qualitative, development, quantitative and interpretation. These two learning resources were developed based on the basic competence of food processing and housekeeping sets and also extended on chemistry content. To get the content and face validity, two experts had reviewed and gave feedback to these learning resources. The feasibility analysis of learning resources was obtained with responses from chemistry teachers majoring in tourism on four aspects including feasibility of chemical concepts, concept presentations, linguistics, and graphics. A group of experts confirmed that the contextual learning resources were feasible as the chemical enrichment content for vocational tourism students. Vocational tourism teachers as a stakeholder also gives a good response to the quality of contextual learning resources that developed. This study shows that the contextual-based learning resources can be a useful tool for teachers to improve students' chemical literacy in vocational schools.

Kata Kunci: learning resources, contextual, vocational students, chemical literacy