

Practicality And Effectiveness Of Vocational Inventory Model In Prospective New Vocational Middle School Students

Arden Simeru^{1*}, Ambiyar², Fahmi Rizal³

^{1,2,3}Universitas Negeri Padang, ¹Sekolah Tinggi Teknologi Pekanbaru

*Corresponding Author: asimeru@gmail.com

Abstract:

Admission of new students is the process of accepting students with a structured flow (registration and selection) by meeting the specified requirements. Whereas the admission selection is basically only to facilitate the process of determining the acceptance of students to majors in accordance with the abilities of new students. Interest inventory is a tool to reveal someone's interest in the form of a list of statements that the respondent must answer honestly according to the actual situation. This research is an R&D research as a development method using the Borg and Gall model. This research produces a product in the form of new student acceptance media accompanied by a guide book for teachers, prospective students, and admins.

INTRODUCTION

SMK is a form of unit formal education vocational p there are levels middle education namely the continuation of the junior high school in Elementary Education, namely: JUNIOR HIGH SCHOOL/MTs, or other equivalent form. Schools at the secondary education level and the type of vocational training can be called Vocational Schools or Madrasah Aliyah Vocational Schools (MAK), or other equivalent forms (Law on the National Education System No. 20 of 2003).

SMK has many skill programs. The skill program carried out at the Vocational High School adjusts to the needs of the existing workforce. Skills programs at the Vocational School level also adapt to the demands of society and the market. Vocational education is education intermediary that prepares students in particular to be ready to work in certain fields.

Students can choose the area of expertise that they are interested in in vocational high schools. The vocational curriculum is designed so that students are ready to work directly in the world of work. The content of the curriculum in vocational schools is arranged in such a way according to the needs of the existing workforce. This is done so that students do not experience significant difficulties when entering the world of work. With

a study period of about three years and four years, SMK graduates are expected to be able to work according to their skills.

In the Big Indonesian Dictionary, acceptance is the process, method, or act of acceptance. While students or students in Article 1 paragraph 4 of Law No. RI. 20 of 2013 are community members who seek to develop themselves through the educational process at certain levels and levels and types of education.

Based on the above, it can be concluded that the acceptance of new students is the process of accepting students with a structured flow (registration and selection) by meeting the specified requirements. Whereas the admission selection is basically only to facilitate the process of determining the acceptance of students to majors in accordance with the abilities of new students.

According to Ahmadi and Widodo (Marliana et al, 2015) Inventory is a kind of questionnaire or a list of several question items that must be answered by respondents briefly, question items can be in the form of question sentences or news sentences. Meanwhile, according to Anastasi and Urbania (2007:387) Inventory is an instrument in the form of a list of useful statements to obtain information from respondents for the purpose of revealing certain variables. Another opinion is expressed by Laura (2012: 157) inventory is included in the self-report test. An inventory is a type of test that asks

people directly whether specific items (usually true/false or agree/disagree) describe their personality traits. So, in the inventory there are items that are useful in revealing the personality of the respondents who fill it in.

An interest inventory is a questionnaire designed to assess the relative strength of interest in investigative, artistic, or conventional occupations, which can also be said to assess individual attitudes toward pure science, art for art, practical tasks, and the like (Anastasi and Urbania). , 2007:426). This inventory will provide an analysis of interests that will be useful in selecting students' career decisions in schools. Interest is part of a person's personality. Expressing interest is tantamount to finding out part of a person's personality. From the opinion above, it can be concluded that the interest inventory is a tool to reveal a person's interest in the form of a list of statements that the respondent must answer honestly according to the actual situation.

In the admission procedure, first of all prospective students are invited to register by filling out the registration form to gain access to register. Furthermore, prospective students can register by filling in their personal data then prospective students are asked to verify directly by submitting the necessary documents that have been determined by the committee.

There are three criteria in the process of accepting new students, namely national exam scores, written test scores and interview scores. National exam scores are obtained from a collection of copies of diploma files that have been legalized by the school from prospective students. While the written test and interview scores are given after a series of tests are carried out.

METHOD

According to Sujadi (2003:164) Research and Development or Research and Development (R&D) is a process or steps to develop a new product or improve an existing product. , modules, learning aids in the classroom and laboratories), but can also be software such as programs for data processing, classroom learning, libraries or laboratories, or educational models, training

learning, guidance, evaluation, management, and others (Anonymous, 2012).

R & D requires connection with experimentation because it focuses on effectiveness, efficiency and productivity (Putra, 2015: 130). Therefore, after the new Interest and Talent-Based Online Student Admission System at the Vocational High School is deemed feasible to use, it will be experimented with in learning. In addition, the experimental class and control class are used as comparisons that can show the level of effectiveness, efficiency and productivity of the resulting product.

The development procedure using the research form used is the Borg and Gall R&D model developed by Sugiyono. The steps of R&D are as follows (Sugiyono, 2008: 289) (1) Potential and problems, (2) gathering information, (3) product design, (4) design validation, (5) design improvement, (6) trial product, (7) product revision, (8) use trial, (9) product revision, (10) mass product manufacture. Based on the existing model development steps, the development steps that will be used are, potential and problems, gathering information, product design, design validation, design improvement, product testing, and product revision.

Practicality testing is very important to see the practicality of a model. A model being practical in an assessment also means that the extent to which the demands of certain test specifications can be met within the time limits and existing human and material resources can be concluded as a practical assessment (Bachman & Palmer, 2009; Kadir, et al, 2019).

In this study, practicality testing was carried out by filling out questionnaires by model users, namely teachers, admins and prospective vocational students. The practicality test of the model on the teacher consists of the practicality of the model and the practicality of the guide, then the practicality test of the model on prospective students, and the practicality test of the model on the admin.

Effectiveness is another important consideration in analyzing authentic judgments. According to Braskamp & Engberg (2014) effective assessment must have criteria, namely, have clear objectives and readiness for assessment, involve stakeholders during the assessment process, teachers must know about what they will assess and how they will

assess it. To measure the effectiveness test in this study, it was done by filling out questionnaires by model users, interviews and observations.

RESULTS AND DISCUSSION

According to Samani (1998: 2) SMK as an educational institution that prepares students who are able to enter the world of work, the suitability of education with the world of work holds a very important key. Conformity can be interpreted as the suitability of the area of expertise studied by students with the needs of the world of work that will be entered after completing education, in terms of type and quality. In accordance with Permendikbud Number 51 of 2018 concerning New Student Admissions (PPDB) in Kindergarten/SD/SMP/SMA/SMK and Vocational High Schools in the PPDB process in addition to looking at the National Examination scores, selection activities also consider the results of aptitude and interest tests in accordance with areas of expertise to be selected using criteria set by the School, and partner institutions or professional associations.

It is important for students in the vocational field to know their interests and talents which are input in the selection of the majors to be chosen, especially for students who will continue their education to the tertiary level. Individual interests and talents can be identified using various methods, including by conducting interest and aptitude tests. Interest and aptitude test activities carried out by a person can produce individual data.

The instrument models in measuring interest (test interest) that are widely used today are the Rothwell Miller Interest Blank (RMIB) and the Vocational Interest Test (VIT). The weakness of the two test models is that both models only give a general idea of a person's interest without seeing whether someone can or not, such as someone who has an interest in singing but actually lacks singing ability. Another weakness of the two test models currently classifying jobs into twelve categories, while the current type of work is very large and there are several types of jobs that require other categories, if it is associated with competencies in the 4th industrial revolution.

So we need a test model that is able to specify what is not in general. A test model that is capable of classifying jobs that are needed today or trends, which are in accordance with the XXI century and the industrial revolution such as programmers, computer network analysis, therefore an inventory test model is needed that accommodates information and communication technology because it is able to overcome these problems. This study aims to validate the Vocational Interest Inventory Model for prospective new vocational high school students.

Practicality in research and development is assessed through the use of the Vocational Interest Inventory Model for New Vocational Vocational Students Candidates based on SPK in the perceptions of prospective SMK students, teachers and admins. The results of the practical analysis show that:

- a. The results of the practicality test of the Vocational Interest Inventory Model for New Vocational Students Candidates Based on the SPK according to the perception of prospective vocational students with an average score of 85.91% in the Very Practical category, according to the teacher's perception with an average score of 86, 11% in the Very Practical category and according to the perception of the admin with an average value of 93.78% in the Very Practical category.
- b. The results of the practicality test of the Teacher's Guidebook according to the teacher's perception with an average value of 88, 50% in the Very Practical category.
- c. The results of the practicality test of the Admin Guidebook according to the admin's perception with an average value of 92.00% in the Very Practical category.
- d. The results of the practicality test of the New Vocational Student Prospective Handbook according to the perception of prospective SMK students with an average value of 86.58% in the Very Practical category.

The effectiveness test in this study was conducted to assess the effectiveness of the implementation of the Vocational Interest Inventory Model for New Vocational Vocational Students Candidates based

on the SPK which was applied to 120 research respondents. Effectiveness analysis was conducted by distributing effectiveness questionnaires to respondents. the results of the effectiveness test of the Implementation of the Vocational Interest Inventory Model for Prospective New Vocational Students Based on SPK, Teachers and Admins. The results of the effectiveness analysis show that:

- a. The results of the effectiveness test of the Vocational Interest Inventory Model Book for New Vocational Students Candidates Based on the SPK according to the perception of prospective vocational students with an average value of 87.40% in the Very Practical category, according to the teacher's perception with an average value of 88, 78% in the Very Practical category and according to the perception of the admin with an average value of 90.22% in the Very Practical category.
- b. The results of the teacher's guidebook effectiveness test according to the teacher's perception with an average value of 88, 67% in the Very Practical category.
- c. The results of the effectiveness test of the Admin Guidebook according to the admin's perception with an average value of 88.67 % in the Very Practical category.
- d. The results of the effectiveness test of the Prospective New Vocational Student Guidebook according to the perception of prospective SMK students with an average value of 89.91% in the Very Practical category.
- e. The results of the effectiveness test of the Vocational Interest Instrument based on Trial 1 until it was not proven effective with a value of 90% in the Very Good category.
- f. Conducting interviews with new prospective students who have taken the vocational interest inventory test after taking the test, and it is found that there is a tendency for the results of the interest inventory test to be similar to the answers given during the interview.

Online Interview Results about Vocational Interest Inventory test results

No	Respondent	Test Results	Types of Questions asked	Answer
1	Prospective Student 1	Social	Do you like work where the job is to help others	Yes
2	Prospective Students 4	Technopreneur	Do you like learn new technology	Yes
3	Prospective Students 6	Enterprising	Do you like team lead job	Yes
4	Prospective Students 7	Conservative	Do you like work with jobs that require order	Yes
5	Prospective Students 8	Investigative	Do you like a job that need accuracy	Yes

CONCLUSIONS

Based on the results of the analysis and development of the vocational interest inventory model, the following conclusions were drawn, namely (1) The vocational interest inventory model was developed by adopting the borg and gold model from Sugiyono's development covering potential and problems, information gathering, product design, design validation, design improvement, testing product try, product revision.. (2) Product validity and support for the vocational interest inventory model include model books, teacher guides, admin guides and guides for new prospective students which are proven to be very valid through the Aiken's V test, (3). This research has produced a vocational interest inventory model for prospective students with the following schemes/steps: Development of measuring instrument specifications, Writing statements or questions, Reviewing statements or questions, Making statement or question symbols, Instrument assembly (for testing purposes), Information Technology Application Implementation, Information Technology Application Socialization, Trial, Test result analysis, Instrument selection and assembly, Instrument administration (final form) and Measurement of scale and norms. (4). The practicality of the vocational interest inventory model for prospective students for teachers, admins and prospective students is proven to be practical. (5). The effectiveness of the vocational interest inventory model for prospective students has proven that the model is effective. The practicality of the vocational interest inventory model for prospective students for teachers, admins and prospective students is proven to be practical. (5). The effectiveness of the vocational interest inventory model for prospective students has proven that the model is effective. The

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