Pedagogical Competence of Teachers in Planning Vocational High School Learning

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ABSTRACT

The teacher becomes the main actor in the learning process, especially in vocational education, namely productive learning which has its own characteristics that cannot be equated with adaptive and normative learning. This research aims to analyze directly the pedagogical evaluation of teachers in planning learning activities in vocational high school in the field of electricity. This study used the Countenance Stake evaluation research method. This research focuses on one aspect, namely the planning aspect (antecedents) in the productive learning process. The research method used is the quantitative method. The data collection techniques used are questionnaires. Data analysis techniques are performed using descriptive quantitative. The results showed that there was a weakness in the pedagogical competence of teachers in making plans for learning activities with an average of 3.24 which was in the category quite well. Learning planning made by teachers has not been in accordance with process standards and also does not refer to a curriculum that is tailored to the abilities and needs of learners. There needs to be a review and improvement of the aspects that have not been fulfilled in the learning planning made by teachers and also the need to improve the pedagogical competence of teachers so that learning activities can be carried out properly and able to print competent vocational school graduates.

1. INTRODUCTION

Vocational high school (SMK) is one of the educational institutions that has the aim to prepare students into a workforce that is certainly skilled, creative, productive and able to enter the world of work with the competencies it has after graduating from vocational school (Jayanti & Senam, 2017; Rusilowati & Wahyudi, 2020; Yulius, 2020). SMK has the task of equipping graduates with the skills to be able to work in accordance with competencies and areas of expertise. Learning in vocational school has a scope that is normative, adaptive and productive (Pratiwi & Meilani, 2018; Sholihah & Lastariwati, 2020; Wakid et al., 2020). Productive learning is the most important thing for students in vocational school to develop their potential through productive learning. This productive subject will actually serve the demands of the business world and industry later. Productive program subjects also equip mentality, proficiency, participatory management with mental attitudes and skills in certain fields that prioritize the quality and totality of work (Estriyanto et al., 2017; Setiyawan et al., 2017).

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The learning process is an activity that is systematically designed in a structured manner and carried out with certain procedures to take the best possible approach to achieve established learning goals (Cheung & Lee, 2010; Rachmadullah et al., 2020; Santika et al., 2020). The scope of the learning process consists of learning planning, learning implementation process and learning outcomes (Arifin, 2020; Balashov et al., 2021). The process of teaching and learning in schools is very important, this is because all the knowledge that will be taught to students through the learning process must be carried out as well as possible, both in terms of planning, implementation, and learning outcomes of students. Learning is a program that has systematic, systemic, and planned characteristics (Al-Zoubi & Younes, 2015; Norahmi, 2017; Sadlikin & Hamidah, 2020). In Permendikbud No. 22 of 2016 concerning Standards of Primary and Secondary Education Process said the implementation of learning is an implementation of RPP. Learning Implementation Plan (RPP) is a plan of face-to-face learning activities for one or more meetings (Fatimatuzahroh et al., 2019; Jayanti & Senam, 2017; Marhaeni et al., 2018). RPP is developed from the syllabus to direct the learning activities of learners in an effort to achieve Basic Competencies (KD). The implementation of learning includes preliminary activities, core activities and closing activities. The learning process of the teacher's readiness to start learning is very influential on the success of the learning process or how effective the learning process is (Anisa, 2017; Gustiawati et al., 2020; Wahyudi et al., 2013). Therefore learning must be done in a certain order and steps, ranging from planning, implementation to assessment. The education unit must carry out planning, assessment, and supervision of the learning process for the implementation of an effective and efficient learning process (Pramitasari et al., 2019; Putri et al., 2020; Reyna et al., 2017).

In order for the learning process to be quality and in line with learning planning, teachers must understand the importance of professionalism in carrying out their duties as early as possible (Fen & Poh, 2015; Garba et al., 2015; Murtonen & Balloo, 2019). Teachers become the main actors in the learning process, especially in vocational education, namely productive learning should ideally master the correct methods of teaching theory and practice, because productive learning has its own characteristics that cannot be equated with adaptive and normative learning (Hermino & Arifin, 2020; Ramban & Fauziah, 2019; Sobry & Saï, 2020). The quality of the learning process also depends on teachers who have professional competencies that support (Darwis et al., 2019; Kim et al., 2019; Yulius, 2020).

Carrying out an effective and quality learning process, professional teachers who have competence, master science and technology, have skills in teaching, have a commitment to carry out the learning process, are responsible for their duties and obligations, and have good ethics or morals Pedagogical competence, one of the types of competencies that must be absolutely owned by teachers (Ahyanuardi et al., 2018; Ana et al., 2020; Jayanti & Senam, 2017). Pedagogical competencies basically include the teacher’s ability to manage learning and will determine the success of the learning process and outcomes. Pedagogical competence is one of the basic competencies that serves to plan, implement, and evaluate the learning process (Garba et al., 2015; Irmawati et al., 2021; Titarenko & Little, 2017). The importance of teachers in the learning process, evidenced by the results of studies conducted in developing countries, 36% of teacher factors contribute to the learning achievement of learners (Aziz et al., 2020). Teachers become the determinants of learning success in vocational school. The other study states that the part that supports the success and smoothness of teaching and learning activities cannot be separated from the preparation and planning of careful learning (Fisher et al., 2020). Therefore, the preparation of the implementation of learning compiled by teachers is very important for the success of the productive learning process involving teachers and learners.

Based on the background of the formulation problem in this study is how the planning (antecedents) or planning that exists in productive learning programs. Based on the formulation of the problem, the purpose of this study is to evaluate and describe the planning (antecedents) of productive learning programs in the field of electricity in SMK N 2 Sungai Penuh City. With the implementation of the evaluation, teachers and the school know whether the learning process that has been going on has been achieved according to learning goals or not. With the results of the evaluation of the teacher can diagnose the cause of this and the teacher can also improve the competence he has. If this evaluation can run well and structured, it is believed that problems with the competence of these learners will be solved in accordance with learning goals that are oriented to the results of student competencies.

2. METHODS

This research uses a type of quantitative research, data collection on quantitative research is carried out using questionnaires or questionnaires (Creswell, 2014; Khalidi, 2017). The instruments in this study used questionnaires. Filling the questionnaire is done by the respondent by selecting the answer by circling the questionnaire sheet. Alternative answers to items are (5), (4), (3), (2), (1) with statements.
starting from very good, good, good enough, less good and not good. The subject in this study is a productive teacher of Electric Motor Installation (IML) subjects in the field of electricity SMK N 2 Sungai Penuh City. The object of this study is the productive learning program of Electric Motor Installation (IML) subjects in the field of electricity SMK N 2 Sungai Penuh City. The data source is selected with some consideration with a specific purpose. The consideration in question is the teacher who is considered to know best and master what is needed and expected. Teachers who are competent and have enough experience in their fields. The data source in this study is teachers who enable or teach productive subjects of Electrical Motor Installation (IML). The data analysis technique is show in Table 1.

### Table 1. Data Analysis Results

<table>
<thead>
<tr>
<th>No</th>
<th>Sub Indicators</th>
<th>Sum</th>
<th>Sub-Indicator Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Designing Learning Activities</td>
<td>2</td>
<td>3.83</td>
</tr>
<tr>
<td>2</td>
<td>Learning Objectives</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>Learning Materials</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Learning Strategies</td>
<td>1</td>
<td>3.67</td>
</tr>
<tr>
<td>5</td>
<td>Media Pembelajaran</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>Evaluation</td>
<td>1</td>
<td>3.33</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>7</strong></td>
<td><strong>3.64</strong></td>
</tr>
</tbody>
</table>

3. RESULT AND DISCUSSION

#### Results

Antecedents component or planning component is a component made by teachers to carry out productive learning program activities in the field of electricity expertise in SMK N 2 Sungai Penuh City. This stage consists of designing learning activities, learning objectives, learning materials, learning strategies, media and evaluation. The data analysis technique is show in Table 1.

Based on Table 1, the planning aspect consisting of six indicators and seven statement items was obtained an average of 3.64 and was in a pretty good category. This means that at the stage of designing the planning of learning activities the teacher has made a good enough planning, but there needs to be consideration and commitment to improve the teacher's ability to plan learning activities. This of course aims to make the learning process run effectively in accordance with the planning that has been designed before by the teacher. Findings of nonconformity compared to standards will be given recommendations to improve the quality of the next defense process.

In the planning of learning activities it was found that there are still many teachers in planning learning activities have not referred to or have not been in accordance with Permendikbud No. 22 of 2016 on Standards of Primary and Secondary Education Process. RPP education conducted by teachers is planning the learning model to be used, because vocational schools get more practice than they do. Teachers tend not to adjust planning to the situation conditions in the school and the conditions of learners. RPP compiled by teachers there is a slight drawback that the steps of activities are not arranged in accordance with the allocation of time, media and learning strategies compiled by teachers not in accordance with learning objectives. Evaluation devices compiled by teachers are also not in accordance with process standards. The results of research that found there are still many teachers who have pedagogical competencies that can be said in the low category. This means that teachers need refreshment and training related to pedagogical competencies, especially productive teachers of Electric Motor Installation (IML) in the field of electricity. Teachers must have experience that is able to make the teacher able to innovate, develop innovative learning, so that learning goals are achieved and students are able to obtain predetermined competencies. This is of course an important concern for teacher professional management institutions.

#### Discussion

The planning component here is intended how teachers prepare, structure, design learning activities. This component is also related to the pedagogical competence of teachers, namely the planning and implementation of learning. Pedagogical competence in this aspect includes the teacher's ability to understand the learning process which begins with planning. The results of the research conducted that in
the component or aspect of planning showed a presentation in the category quite well, found in some indicators that still do not meet the criteria that meet the criteria in accordance with the standards of the process. In the indicator of designing learning activities and learning evaluation carried out by teachers is not in accordance with the expected, which means that the pedagogical ability of teachers in compiling or designing learning activities must be improved again so that the learning process can be carried out as it should be. Low pedagogical competence results in planning, implementing and evaluating the learning process not going as desired. This will affect the development of learners (Achilleos et al., 2019; Ahyanuardi et al., 2018; Ana et al., 2020).

Competence owned by teachers is one of the important things that must be considered by the school and the teacher itself. In the learning process that occurs in the classroom, there needs to be the development of teacher competence as one of the important actors in the learning process (Dharma & Siregar, 2015; Iskandar & Juhana, 2014; Safitri et al., 2019). In improving the quality of education, especially Vocational High Schools that will later print competent graduates, there must be qualified teachers because teachers are one of the spearheads of the success of the educational process that takes place in schools. This means that the success of the implementation of learning is very dependent on the quality of learning planning that has been prepared, especially the syllabus and RPP (Pramitasari et al., 2019; Tsakeni, 2021; Wibawa et al., 2018). With the competence possessed by good teachers, the planning of the defense is also good. With good planning, it will result in good implementation. The implementation of learning carried out by teachers must be in accordance with Permendikbud No. 22 of 2016 on Standards of Basic Education process and Meenegah Education. The role of a teacher in carrying out the learning process is very important in an effort to improve the quality of education. Competent teachers or professional teachers are needed in improving the competence of learners.

Follow-up to overcome the problem of teacher competence in planning learning activities can be started from school so that it can always evaluate the teaching device compiled by the teacher, whether the device compiled by the teacher is in accordance with process standards and follow up on the device that has been evaluated (Aulia et al., 2018; Tsakeni, 2021). So that learning can take place in accordance with expectations. Teachers of productive subjects to always evaluate the devices that have been compiled before being given to the school for evaluation and follow-up. Teachers are expected to be more careful and systematic in planning and compiling learning activities and adjusting to applicable laws and regulations (Abrahams & Reiss, 2012; Noguera et al., 2018). Teachers are expected to pay more attention to the steps in carrying out learning in accordance with the standards of the process, namely preliminary, core and closing. Teachers are expected to improve the competencies that should be owned by teachers so as to improve the quality of learning and have an impact on learning outcomes.

In accordance with the results of research the results of this research and discussion need to be associated with the theory of evaluation of existing programs. It aims to strengthen the analysis in making decisions from the end of this study. First, this study managed to see successes or failures in the evaluation of the productive learning process in the field of electricity in SMK N 2 Sungai Penuh City (Arikunto & Safruddin, 2009). The results showed that learning planning was quite successfully implemented, but it must be considered and still has some shortcomings and problems that need to be corrected or improved. Another study emphasize that teachers are the determinants of learning success in SMK (Gabena, 2017). Especially the success of teachers is strongly influenced by preparation and careful learning planning.

The improvement of pedagogical competence can be through the teacher himself, the researcher recommend to a school that facilitates the needs of teachers and attends some training that is able to improve competence and provide experience to teachers in innovating to compile and design learning planning. Implikasi dari penelitian ini guru serta pihak terkait kerja dengan pendidikan memelihara pengetahuan terkait pedagogical evaluation of teachers in planning learning activities. Namun penelitian ini memiliki keterbatasan terutama dalam hal scopenya karena penelitian ini only focuses on one aspect, namely the planning aspect (antecedents) in the productive learning process. Jadi diharapkan penelitian berikutnya mampu memperdalam topik penelitian yang berkaitan dengan evaluation of pedagogical competence of teachers in planning learning activity.

The improvement of pedagogical competence can be through the teacher himself, the researcher recommend to a school that facilitates the needs of teachers and attends some training that is able to improve competence and provide experience to teachers in innovating to compile and design learning planning. The implication of this research is that teachers and parties related to education have knowledge related to pedagogical evaluation of teachers in planning learning activities. However, this research has limitations, especially in terms of scope because this research only focuses on one aspect, namely the planning aspect (antecedents) in the productive learning process. So it is hoped that the next research will be able to deepen research topics and added the other factor related to the evaluation of pedagogical competence of teachers in planning learning activities.
4. CONCLUSION

Aspects or stages of antecedents consisting of six indicators and seven statement items obtained are in the category quite well. This means that at the stage of antecedents or designing the planning of teacher learning activities has made a fairly good plan, but there needs to be consideration and commitment to improve the teacher’s ability to plan learning activities. Aspects of antecedents evaluation of productive learning process in SMK N 2 Sungai Penuh City is quite good, but there needs to be a review of the planning of learning activities, so that the deficiencies found can be minimized and improved. Pedagogical competence has a great influence in the planning of learning activities made by teachers.

5. REFERENCES


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