

Development Of Liveworksheet-Based Professional Ethics LKPD To Increase Students' Learning Engagement

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Abstract

The purposes of this study are to analyze: 1) the development stages of student worksheets (LKPD) using Liveworksheets to enhance student motivation in Professional Ethics, 2) the suitability of these Liveworksheets-based LKPD for teaching Professional Ethics to Grade X students, and 3) how these worksheets improve motivation among these students in Professional Ethics classes. The study follows the Borg and Gall development theory, going through the first six stages: 1) preliminary research; 2) data collecting; 3) products design; 4) design verification; 5) design modification; and 6) product testing. The participants of this research were Grade X students from SMKN 2 Madiun. The methods for data collection included observations, interviews, and questionnaires. The findings reveal that: 1) the development of LKPDs using Liveworksheets significantly impacts students due to the prevalent use of digital devices in education; 2) these LKPD, according to linguists, media experts, and subject matter experts, are deemed suitable for educational testing; and 3) Liveworksheets-based web LKPD successfully enhance students' learning motivation in Professional Ethics.

Keywords: LKPD, Professional Ethics Learning, Liveworksheet, and Student Learning Motivation



INTRODUCTION

Interesting learning resources are necessary for today's curriculum, especially for students. Students are more eager to complete the learning process when they have engaging equipment. Printed worksheets are seen as ineffective in the classroom since they cannot provide students with an overview of concepts they haven't personally met. Printed LKPD (Student Worksheet) is not yet useful for visual and practical media-based learning, according to Herawati et al (2016). On the other hand, this printed LKPD (Student Worksheet) can be enhanced technologically to become an interactive LKPD (Student Worksheet). E-LKPD (Electronic Student Worksheet), according to Prastika (2019), is a document that gives students guidance on how to do assignments pertaining to fundamental competencies that they must complete online or using digital media.

Based on Jaya & Hasyim (2017), the following are the purposes of LKPD (Student Worksheet) teaching materials: a) aid in the creation of effective learning environments; b) aid in the completion of the learning process to draw in more students; c) expedite the learning process and aid in students' quicker comprehension of the teacher's lessons; and d) assist students in taking an active role in their education as opposed to merely listening to the teacher (Marlini et al., 2022). Based on Effendi (2021), students use a combination of LKPD (Student Worksheet) exercises to develop cognitive aspects.

The aim of a student's learning process is to maintain knowledge. The brain's ability to store and recall various kinds of knowledge has limits for every student; it is not necessary to record the knowledge acquired during learning. Students' critical thinking abilities can be strengthened more easily while using LKPD (Student Worksheet), a learning tool, to carry out thematic learning activities. According to Fitri & Reinita (2022), worksheets on technology promote safety for both teachers and students. Students become more responsible and independent as a result of this dynamic and engaged learning environment. With Liveworksheets, students may create worksheets. Based on Ratnawati (2021), teachers may create dynamic, user-friendly worksheets with liveworksheets, enabling them to create pre-made worksheets for each student. One of the available resources for student learning is LKPD (Student Worksheet). A learning intermediary called LKPD (Student Worksheet) can be used to support individual or group learning using a variety of learning resources and to slow down learning activities (N.F. et al., 2022). The printed LKPD (Student Worksheet) is intended to be updated into an interactive LKPD (Student Worksheet). The liveworksheet site is available online. Using liveworksheet for product



development is successful.

Teachers can create personalized interactive E-LKPD (Electronic Student Worksheet) online and use pre-existing E-LKPD (Electronic Student Worksheet) by using the Liveworksheet platform. You can access this website by going to www.liveworksheet.com. Although registering is required to obtain an account, it is free. According to Fauzi (2021), this website allows users to create reports for different kinds of queries. Students have the option to select from a variety of question formats, including checkbox, multiple choice, and drop-down. Joint with arrow (join), drag-drop (move and arrange), and speaking while listening. By sending the question link to students' WhatsApp accounts, educators can utilize questions that other account users have submitted.

The next steps in the design process include choosing and figuring out the content, organization, and flow of educational materials or messages; developing a timeline for development; creating stickers; developing product specifications; and producing prototypes of the final products. Furthermore, improvement needs confirmation from professionals and specialists. One-on-one evaluations, field evaluations or field trials, small group evaluations or small group trials, and summative evaluations are all included in implementation and evaluation. Technology-based worksheets promote safety for both teachers and student (Fitri & Reinita, 2022). Students become more responsible and independent as a result of this dynamic and engaged learning environment.

Based on Arianti (2018), in essence, students are driven to participate in events because they wish to benefit from the instruction or have their needs met. On the other hand, some students study in order to be appreciated or shielded from unfavorable sources, including grades, commendation marks, or teacher recognition. It is anticipated that by creating LKPD (Student Worksheet) to support the liveworksheets website, student learning motivation will rise. Features that indicate a student's drive to learn include perseverance in finishing tasks (such as the ability to work continuously for an extended period of time without stopping), perseverance in the face of difficulties (such as the ability to persevere through setbacks), and the lack of need for outside encouragement. to accomplish as much as possible (for instance, without being immediately content with his accomplishments) and curiosity about a range of issues (Faradisa et al., 2023).

Teachers will save time and paper by doing this, and students will gain from it as well because it is interesting and motivating (Andriyani et al., 2020). Teachers still had to shell out a lot of cash for paper and ink to publish the previous edition of the LKPD (Student Worksheet).



According to the explanation given above, researchers are interested in creating a LKPD that uses live worksheets to boost students' enthusiasm to learn. They worked with Canva to design the LKPD (Student Worksheet) and are interested in doing so through the website www.liveworksheet.com. "Development of Liveworksheet-Based Professional Ethics LKPD to Increase Students' Learning Engagement" is the name of the research project that will be undertaken.

METHOD

This kind of research is known as development. Research and development, also known as R&D, is a form of research that focuses on developing and testing specific products, according to Hanafi (2017). Utilizing the Borg and Gall paradigm, this study follows the Borg and Gall development theory, going through the first six stages: 1) preliminary research; 2) data collecting; 3) products design; 4) design verification; 5) design modification; and 6) product testing.

Restrictions in terms of time and study execution, the researcher employed six procedures that were adequate to assess the viability and validity of the LKPD that was being produced (Assyauqi, 2020). The study was conducted at SMKN 2 in Madiun. Class X AKL 4 was the population studied in this study. A small sample of students from class X AKL 4 was drawn using simple random sampling.

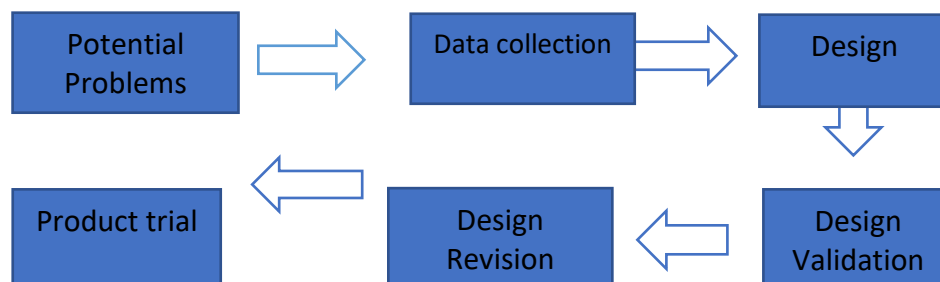


Figure 1 Development Steps

This research uses the Gall & Borg method with 10 steps and only 6 steps are used as follows:

1. Potential and Cooking

Research that uses field studies with interviews and documentation studies to collect data

about development needs.

2. Data collection

The stages carried out for planning the research framework include the steps, time and involvement of various parties that will be carried out during the research. Sugiyono (2016) states that observation is direct observation of the object to be studied with the aim of obtaining valid research data.

3. Design

Carrying out initial development and drafting material and questions, designing images that will be included in the LKPD (Student Worksheet), integrating professional code of ethics material into the live worksheet.

4. Design Validation

Stages to test the suitability of the product by assessing it with material experts, language experts and teaching materials experts using a questionnaire.

$$V = \frac{Tse}{Tsh} \times 100\%$$

Description :

V : percentage figure

Tse : Total empirical score

Tsh : Total expected score

5. Design Revision

At this stage improve and perfect the product after identifying deficiencies based on input from material experts, language experts and teaching materials experts.

6. Product Trial

The live worksheet LKPD (Student Worksheet) product is being tested on a limited basis. Usage trials were carried out with several students and class teachers using a questionnaire to determine the practicality of this live worksheet-based LKPD (Student Worksheet) and also a questionnaire to measure how motivated students are to learn when using this live worksheet LKPD (Student Worksheet).

$$V = \frac{Tse}{Tsh} \times 100\%$$

Description :

V : percentage figure

Tse : Total empirical score



Tsh : Total expected score

RESEARCH RESULT

The findings of development investigations carried out by relevant professionals regarding the development of live worksheet-based LKPD (Student Worksheet) in the subject of professional ethics in class, and LKPD used when learning is finished.

Based on the findings of their observations, the researchers concluded that because of the advancements in modern technology, the usage of digital LKPD (Student Worksheet) had not yet been adopted at the time the learning implementation was completed. To make the LKPD (Student Worksheet) more engaging, useful, and manageable for students to work on, as well as easier for teachers to correct the answers on, they require the newest developments in the LKPD (Student Worksheet). Additionally, because of their increased interest, pupils' motivation to learn has grown. Additionally, students' motivation to learn has increased as a result of their increased interest.

In developing this research, the Gall & Borg method was used with 10 steps and only 6 steps were used as follows:

1. Potential and Problems

At this point, the researcher examined the necessity of collecting information on the issues underlying the creation of a live worksheet-based LKPD (Student Worksheet) for students to learn professional ethics in the classroom. Data showing the use of the self-sufficient learning curriculum was gathered from observations conducted at SMKN 2 Madiun.

2. Data collection

The data collection stages carried out by the researcher are as follows:

a. Selection of Basic Competencies and Indicators

In this research and development, the selection of basic competencies and indicators uses the independent learning curriculum as a reference. The researcher only focused on the questions included in the live worksheet-based LKDP (Student Worksheet) in accordance with the basic competencies and existing indicators in professional ethics learning and the researcher chose lesson 1 which contained material about the professional code of ethics. An examination of the current vocational school curriculum served as the basis for the preparation of this LKPD. The title of this lesson plan is " Development of a Professional Ethics LKPD (Student Worksheet) Based on Liveworksheet in Increasing Learning



Motivation of Class X Students at SMKN 2 Madiun" in accordance with the material developed.

3. Product Design

At this stage, product design is carried out after analyzing potential and problems from the results of data collection. To create a product, you need to determine goals, outline the product, design the layout, import the design results into the web live worksheet.

a. Determining Goals

In terms of determining the purpose of preparing and making live worksheet-based LKPD (Student Worksheet), it is to assist teachers in correcting the results of student work.

b. Preparing the Product Framework

The first step in preparing the LKPD (Student Worksheet) is creating a framework, which will enable it to be constructed in an organized way. The cover, key competencies, fundamental competences and indicators, a synopsis of the content, questions, and lastly the conclusion are the first things that go into creating a framework. A synopsis of the content and questions are asked in line with the predetermined content, which is the professional ethics topic found in the class X professional code of ethics' sub-chapter.

Initial Part
LKPD title
Name, class and absence number of Core Competencies
Contents Section
Summary of material on the Professional Code of Ethics and Understanding and Scope of Professional Ethics in the Accounting Field.
Multiple Choice Questions
Essay Questions
Final Part
Closing

Figure 2 Liveworksheet based LKPD product composition



c. Designing Products

In making this LKPD (Student Worksheet) product, the researcher designed the background, front cover, and others using the Canva application which can be accessed via laptop using the web www.canva.com. After designing the LKPD (Student Worksheet) in Canva, the researcher downloaded the design results in PDF format which was automatically saved on the laptop.

d. Exporting to Liveworksheet

At this stage the downloaded results are then exported to the liveworksheet web using the link www.liveworksheet.com. The following are the steps for accessing the live worksheet:

1. Click the link or go directly to Google Chrome by typing liveworksheet, then click and select the top one yourself.
2. Log in to your liveworksheet account if you already have an account in the teacher access section or you can register first at teacher access
3. After entering the livewroksheet account, select the make interactive worksheets section, then select get started, then upload the LKPD (Student Worksheet) file which has become a PDF to liveworksheets.
4. After entering the LKPD (Student Worksheet) file into the live worksheet, the researcher creates answers on the LKPD (Student Worksheet) which will show the correct answers, so that when students finish working, they immediately see the grades and which answers are wrong.
5. And the last one is a live worksheet based LKPD (Student Worksheet) link that is ready to be used and tested on students.

<https://www.liveworksheets.com/c?a=s&t=je26fj2y1ui&sr>

4. Design Validation

The feasibility of liveworksheet-based LKPD (Student Worksheet) through validation from material experts, language experts and media experts to provide assessments and suggestions for professional ethics liveworksheet-based LKPD (Student Worksheet) products for vocational students. The results of expert validation are used as a reference for revised improvements.



Table 1. The results of the LKPD

Expert Assessment	Validation	Percentage
	Validator	
Material Expert 1	18	75%
Material Expert 2	23	96%
Linguist 1	21	88%
Linguist 2	17	71%
Media Expert 1	14	88%
Media Expert 2	14	88%
Amount	107	506%
Combined Percentage Yield		88%

Based on Table 1. The results of the LKPD expert validation assessment obtained a score of 66 with a maximum score of 80. This shows that the accepted percentage of 82% is in the range of 81%-100% and is very feasible.

1. Design Revision

Some of the validator's suggestions for revision in live worksheet-based digital LKPD (Student Worksheet) products are in the form of writing, material summaries, and writing on the LKPD (Student Worksheet).

2. Product Trial

Product trials were carried out to determine student responses. Student responses are used to determine the quality of the live worksheet-based LKPD (Student Worksheet) developed as well as the results of the response questionnaire regarding student learning motivation.

table 2 summarizes the response survey results

No	Subject	Total score	Percentage	Criteria
1.	Vannya I P	20	84%	Very good
2	Pawang Ndanu P	24	100%	Very good
3	Rini Putri S	23	95%	Very good
4	Poppy Aulia C	21	88%	Very good
5	Wahyu Setya N	22	92%	Very good



No	Subject	Total score	Percentage	Criteria
6	Siska Wahyu R	23	96%	Very good
7	Ririn Etikawati	19	80%	Good
8	Syifa TO	23	96%	Very good
9	Putri Astuti	23	96%	Very good
10	Rindiani Eka LP	24	100%	Very good
11	Resti Nur A	24	100%	Very good
12	Yesinta Dwi LP	24	100%	Very good
13	Siti Nurnatasha L	23	96%	Very good
14	Raya Anestry DG	23	96%	Very good
15	Revalina Dwi P	20	84%	Very good
16	Vety Amelia S	20	84%	Very good
17	Shanti Siwi A	24	100%	Very good
18	Putri Eka Destian BS	22	92%	Very good
19	Waridatul Hasanah	21	88%	Very good
20	Syafira Nur F	21	88%	Very good
21	Yesa ArdineW	22	92%	Very good
22	Salwa Zelomita TR	18	75%	Good
23	Vinata Anggraini	19	80%	Good
Amount		503	96%	Very good

The above table summarizes the response survey results for class X AKL 4 SMKN 2 Madiun, which includes 23 students. It indicates that students obtained a score of 503, which is higher than the projected score of 552. With the use of the Liveworksheets website, the students' questionnaire on the advantages of LKPD got an overall score of 96% with the rating of "Very Good".

Table 3. Indicator

Indicator	Score	Maximum Score	%	Category
There is a desire to achieve	158	184	75%	Simply Motivated
There is a desire and need to learn	241	276	91%	Motivated
There are plans and goals for the future.	249	276	83%	Motivated



There are interesting learning activities	232	276	84%	Motivated
There are plans and goals for the future.	336	363	82%	Motivated
Enjoy finding and solving problems	408	460	95%	Motivated

The study's findings proved that student learning engagement in class X Accounting 4 students, there was an increase in learning motivation for each indicator. Overall, before being given the motivation product the value was 64.46% (high), then after being given the motivation product it increased by 89.38% (very high). This means that there is an increase in motivation by 24.92%.

DISCUSSION

Discuss about the development of practical and efficient digital learning resources for teachers and students through live worksheet-based LKPD (Student Worksheet). The reason LKPD (Student Worksheet) works so well is that professors don't need to write a ton of books to instruct their students. In addition, since learning doesn't take a lot of time, students don't need to produce a lot of accounting practice formats because the LKPD (Student Worksheet) already has any available. This LKPD (Student Worksheet) is assessed in theory and practice using a variety of intriguing test formats, such as drag and drop, merge arrows, objective, crossword, and practice. Teachers do not need to spend a lot of time reviewing student responses because students can view the results soon after they are submitted to their account. According to Hariyati & Rachmadyanti (2022), these live worksheets, which are useful and simple to use and include a variety of elements that can make LKPD (Student Worksheet) more engaging, can be used to develop electronic LKPD (Student Worksheet). According to Hardiansyah et al (2023), whose interactive and inspiring student benefits will save time and paper.

Level of feasibility three validators who specialize in language, media, and material can assess LKPD (Student Worksheet) in the First Learning Professional Ethics course through the use of a liveworksheet. In addition, a live worksheet-based student response poll about learning professional ethics is part of the LKPD (Student Worksheet) feasibility study. Further research by Widiyani & Pramudiani (2021) gave obtain evidence of LKPD (Student Worksheet) in the form of



an interactive worksheet intended to evaluate the media's and material experts' validation of two points. This page displays the replies from students at SMKN 2 Madiun together with the findings from the six validators. A total of 75% of the findings from two material experts who validated the material indicated that it was worthwhile to test the live worksheet LKPD (Student Worksheet) content. Secondary material specialists make up 96% of the material experts. Two lecturers who are language experts validate language specialists. With a linguist agreement of 86%, the first linguist recommended testing the paper-based LKPD (Student Worksheet). A linguist validation score of 71% from the second linguist suggested that the paper-based LKPD (Student Worksheet) was worth a trial. Media expert validation was done by two lecturers who are media experts. Eighty-eight percent of media professionals validated the live work sheet-based LKPD, and the results indicated that it was very practical for testing in the first and second validated trials. Aside from that, students can use this live worksheet from LKPD (Student Worksheet) because 25 students from class X AKL 4 SMKN 2 Madiun provided response scores that were 94.3%. According to Aldila (2017), the digital LKPD that is based on live worksheets is engaging and has sufficient effectiveness to force teachers and students to revise their assignments. Consequently, this research on improvement is worthwhile and engaging, particularly for educators and learners.

The created items receive evaluation to determine their effectiveness. The study's conclusions reveal that students' motivation to learn has increased across every indicator. Students that are committed to finishing their work, brave when faced with challenges, show interest in a variety of topics, love working on their own, avoid being bored with monotonous projects, are able to defend their viewpoints, and do not easily give up on their ideas are examples of this.

Students can compete to answer the sample questions provided; they don't feel burdened by doing a lot of questions because they enjoy having a lot of tests to complete; and the way the exercises are conducted involves students in completing them well. By using LKPD (Student Worksheet), students can actively participate in asking questions and having discussions during the learning process. Students frequently repeat the content and view learning videos when working on practice questions since LKPD (Student Worksheet) offers comprehensive and well-organized material as well as sample questions for journal adjustment. Students' motivation to study is increased by this.

Given how useful LKPD (Student Worksheet) is, students respond favorably to using the liveworksheets website because learning activities become more engaging and offer chances for



independent, simple learning. Teachers respond by noting that students become more prepared for learning, accounting practice is completed more quickly than usual, and student answers are corrected effectively. According to studies by Ratnawati (2021) and Faradisa (2023), students may be more motivated to study when they use interactive LKPD (Student Worksheet) materials that are based on real worksheets.

CONCLUSION

The following conclusions can be made in relation to the creation of a liveworksheet-based LKPD for learning professional ethics at SMKN 2 Madiun, based on the findings of research and product trials:

1. Because education now uses a variety of electronic devices, the development of liveworksheet-based digital LKPD is highly influential for students.
2. Based on the evaluation of linguists, media experts, and material experts, the liveworksheet-based digital LKPD is deemed feasible to be tested in learning.
3. The development of liveworksheets web-based digital LKPD is able to improve student learning motivation.

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