

# Improving the Ability of Teachers of SMPN 3 Batukliang, Central Lombok Regency in Class Action Research (CAR)

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**Abstract:** Classroom Action Research (CAR) is a very important method in improving teacher performance and professionalism. Classroom Action Research can improve the learning process and does not interfere with the teacher's task in learning at school. However, the limited knowledge of teachers regarding procedures for preparing CAR, models, strategies, learning methods that can be applied in learning, as well as proper data collection, processing, and analysis are obstacles that are often encountered in the field. Therefore, various efforts have been made to improve teacher performance in improving teacher professionalism, namely by holding an activity in the form of socialization to assist teachers in preparing Classroom Action Research (CAR). The results of the service carried out showed that the socialization material was delivered very clearly and the participants were able to understand the material presented well. It is hoped that this activity can foster the habit of researching and pouring out the results of their research in the form of scientific works to teachers. In addition, teachers have confidence in carrying out their duties and obligations. So, with the implementation of classroom action research (CAR).

**Keywords:** Ability; Community service; Classroom Action Research (CAR)

## Introduction

Teachers are one of the main factors that determine the quality of education. In accordance with the objectives of 21st century skills (Nurhayati et al., 2020), namely teachers and students must have creative thinking skills, critical thinking and problem solving and collaboration or commonly referred to as 4C and along with the times will face the era of Society 5.0, so that teachers who are the main factor in education must have better abilities, because in addition to educating and teaching, teachers must also continue to learn in order to improve their competence so that they are not left behind by technological developments that continue to advance and develop. The role of a teacher is very important so that a teacher is said to be professional if he has four competencies, namely pedagogic competence, competence competence, social competence, and

professional competence obtained through professional education. Professional teachers are needed by every educational unit, because professional teachers are the determinants of a quality education process, something that plays an important role in the change and progress of the nation, including the Indonesian nation (Jana, 2017) (Purba et al., 2022).

Efforts to improve the quality of teachers in the world of education can be carried out in a systematic and controlled manner. One of the systematic and controlled ways is to utilize educational research by using research methods to solve learning problems based on self-evaluation, namely the classroom action research method. This method is based on the fact that previous scientific approaches have not been able to solve the problem of becoming a social inquiry, then a need arises that focuses more on practical problems, not on theoretical problems. Furthermore, there is a

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desire to realize collaboration to develop the professionalism of educators and education staff. Thus, a research method was developed which was later named Action Research, which in Indonesia later developed into a Classroom Action Research method.

Classroom action research is research conducted by teachers in their own classrooms through self-reflection with the aim of improving their performance so that student learning outcomes increase. Empirically, teachers who are experienced in teaching have unconsciously carried out a number of additional activities that are not listed in the lesson unit but have carried out Classroom Action Research. Thus, scientific research and writing is the development of the teaching profession where a teacher can conduct classroom action research called scientific activities. A teacher develops innovations in learning such as using methods, media strategies in order to improve their professional competence.

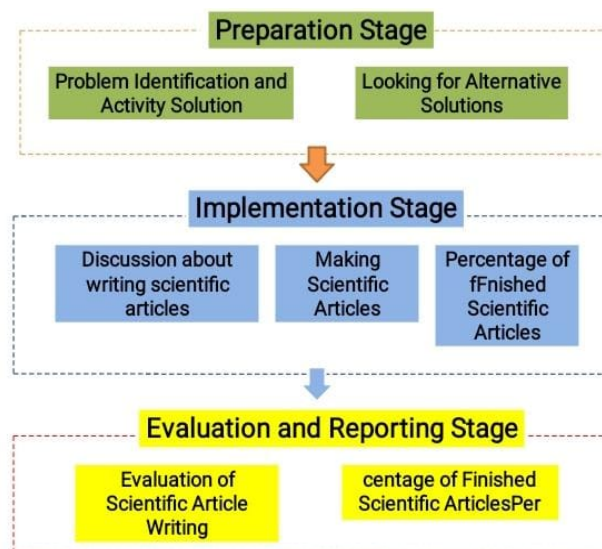
CAR can be referred to as a scientific activity carried out to develop innovations in learning, such as using media methods or strategies, to improve the professional competence of teachers (Jiang, 2022)(Afandi, 2014). CAR is also considered to be able to bridge the gap between educational theory and practice, because research activities carried out by involving students in the classroom, through the application and evaluation of an action, can provide systematic feedback on learning activities carried out by teachers.

Based on the description above and observations at SMP Negeri 3 Batukliang, Central Lombok Regency, the problems that occur in schools greatly affect the learning system in the classroom. This is due to a lack of knowledge about classroom action research (CAR). The biggest problem is not being able to use learning methods properly and correctly, so that socialization or training is needed to improve the quality of teachers as creative and innovative students in Negeri 3 Batukliang, Central Lombok Regency with a community service team of UNRAM physics education lecturers.

## Method

Problems related to the lack of ability of teachers at SMP Negeri 3 Batukliang, Central Lombok Regency in conducting classroom action research (CAR), then this problem can be overcome by conducting classroom action exercises (CAR) with the stages that will be passed in solving this problem in the preparation stage (plan), implementation stage, and evaluation

stage (Doyan et al, 2018; Susilawati et al, 2019). In simple terms, these stages are represented in Figure 1.



**Figure 1.** Framework for the Implementation of Service Activities

1. In the preparatory stage, observations were made of teachers of SMP Negeri 3 Batukliang, Central Lombok Regency, in order to identify the problems faced in conducting classroom action research (CAR).
2. The implementation stage is a follow-up to solving problems by implementing direct training on how to do CAR properly and correctly, so that they have the ability to do CAR. At this stage, teachers are given material on the systematic preparation of CAR proposals, materials related to the implementation of CAR, clinical proposals and assistance in the implementation of CAR to report.
3. The evaluation and reporting stage is that the results of the training are carried out directly by assessing the results of the CAR conducted by the teachers of SMP Negeri 3 Batukliang, Central Lombok Regency. Reporting of service activities is carried out by compiling reports on CAR training and writing.

## Result and Discussion

To realize the improvement of teacher competence at SMP Negeri 3 Batukliang, Central Lombok Regency in the field of classroom action research (CAR), the Physics Education Lecturer Service Team, FKIP UNRAM carried out socialization activities in which the implementation focused on presenting CAR material in a basic way by the resource persons. The CAR material basically

includes the understanding, objectives, benefits, differences between CAR and formal research, characteristics of CAR, principles of CAR, forms of CAR, advantages and disadvantages of CAR, stages of CAR implementation, CAR cycle, analysis and reflection, and followed by the preparation of the PTK report.

Based on the service activities carried out, it can be described that the results of the service implementation are:

1. *Opening and Training on the CAR Concept*

Before delivering the material by the resource persons, the activity was opened by the Principal of SMP Negeri 3 Batukliang, Central Lombok Regency, which was then continued by the delivery of material by the resource person. The material presented was related to the concept of classroom action research in the form of a broader introduction to CAR. the quality of learning in the classroom", this is in line with Susilo et.al., (2022) which is a controlled and independent investigation process carried out by the teacher with the aim of making improvements to the system, working method, process, content, competence and situation during the learning process.

Then the goals and benefits of CAR are to improve the quality of teachers as educators who have an important role in educating the nation's children, where the main objectives of this training are "Improving teacher teaching patterns, improving student behavior, improving learning practices, changing teacher frameworks in teaching so that an increase in teacher professional services" (Pd et.al, 2022). So the benefits obtained are "Improving the quality and quality of learning in the classroom by developing the professional performance of teachers, training teachers to become problem solvers and training teacher creativity" (Ernawati et.al, 2021) (Lestari et.al, 2022). Next, convey the characteristics of CAR, the difference between formal research and the principles, forms and advantages and disadvantages of CAR itself. The characteristics of CAR, are practical action research focus, researchers and educators have practical activities, collaboration, a dynamic process, a plan of action. And joint research (Haerul and Hasan, 2021).

And continued with the delivery of books to schools where the purpose of the submission is to help teachers better understand classroom action research (CAR).



(a)



(b)



(c)



(d)

**Figure 2.** a) delivery of training materials; b) and c) participation in Classroom Action Research (CAR) and d) handing over of books to schools

2. *Improving the Quality of Teachers with Training on Making CAR Proposal Titles and Compilation of Reports*

The next training is helping teachers to make a proposal title that will be developed in order to improve the quality of teachers as educators. In accordance with the principles of CAR, namely:

- a. does not interfere with the commitment of researchers as teachers, meaning that researchers as teachers continue to provide the best for students, if the actions given are not successful then the actions for the next cycle continue to lead to the implementation and achievement of the curriculum
- b. data collection does not interfere with the learning process
- c. The problems studied are in the form of realities that cause concern for educators,
- d. good cooperation between educators and students
- e. the results of the study apply to classical and cannot be generalized

The results of the training are that the teachers of SMP Negeri 3 Batukliang, Central Lombok Regency, feel helped by the CAR training, both in making proposal titles to preparing reports, this can be seen from the responses of the teachers who

were directly involved in the training. The responses obtained were in the form of an evaluation sheet of training activities which contained two categories, namely positive aspects and negative aspects. These responses include:



Figure 3. Presentation of CAR materials and making titles

Table 1. Teacher Responses in CAR Training Activities

No	Positive Aspect	Negative Aspect
1	Can improve the performance and motivation of SMPN 3 Batukliang teachers to be more professional in teaching	-
2	Can increase knowledge about how good CAR activities are, for teachers themselves and teaching places (schools), as well as add insight and methods in overcoming student difficulties in learning	-
3	The existence of this cooperation increases the understanding of teachers about various learning methods. Opening up the insight of thinking of the teachers of SMPN 3 Batukliang more broadly and openly, as well as getting closer and adding information about the need for publication of scientific works and links that can be addressed	Too short time
4	Gain invaluable knowledge, be able to know the stages of CAR and gain new insights about learning techniques in the classroom	-
5	Very good because it can increase knowledge about making CAR in our school and encourage the enthusiasm of teachers to improve learning in the classroom	-
6	Can add understanding and insight for us in making CAR and become motivation in developing learning in the classroom	-
7	With this training, we have a better understanding of CAR and can apply appropriate learning in schools, especially in the classroom	-

### Conclusion

Classroom Action Research Socialization at SMP Negeri 3 Batukliang, Central Lombok Regency, showed that the teachers who were present were very enthusiastic about following and observing what the community service team explained about the models and strategies taught in the classroom to compose it into a classroom- action research. Although in the implementation of this socialization the results have not been maximized, but it is considered progress if the teachers are able to design classroom action research that will be carried out in the classes taught by their respective teachers and develop a learning system in the classroom well, by attracting the sympathy of

students to be able to participate in teaching and learning activities in class.

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