

**INTEGRASI TAHAPAN *LEARNING CYCLE* DENGAN METODE
INQUIRY LABS PADA PEMBELAJARAN FISIKA UNTUK
MENINGKATKAN KEMAMPUAN KOGNITIF DAN KETERAMPILAN
PROSES SAINS SISWA SMK**

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ABSTRAK

Salah satu tujuan dikembangkannya kurikulum 2013 adalah perubahan proses pembelajaran (dari siswa diberi tahu menjadi siswa mencari tahu) dengan berfokus pada pembentukan kemampuan kognitif dan keterampilan. Fakta di lapangan menunjukkan bahwa pada beberapa aspek, proses pembelajaran fisika masih belum sesuai dengan prinsip-prinsip penerapan kurikulum 2013 sehingga berdampak pada pencapaian kemampuan kognitif dan keterampilan proses sains yang masih rendah. Berdasarkan permasalahan tersebut, dilakukan penelitian *pre-experiment* dengan menggunakan desain penelitian *one group pretest-posttest* yang bertujuan untuk memperoleh gambaran tentang peningkatan kemampuan kognitif dan keterampilan proses sains siswa sebagai *impact* diterapkannya integrasi tahapan *learning cycle* dengan metode *inquiry labs* pada pembelajaran fisika di SMK. Hasil penelitian menunjukkan bahwa terjadi peningkatan kemampuan kognitif dan keterampilan proses sains siswa dengan *N-gain* sebesar 0.57 dan 0.69 yang keduanya berada pada kategori sedang.

Kata-Kata Kunci : *Inquiry Labs*, Keterampilan Proses Sains, Kognitif, *Learning Cycle*.

INTEGRATION 5-STAGES OF LEARNING CYCLE WITH INQUIRY LAB METHODS IN LEARNING PHYSICS TO INCREASE COGNITIVE ABILITY AND PROCESS SCIENCE SKILLS IN VOCATIONAL SCHOOL

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ABSTRACT

One of the objectives of the development of curriculum in 2013 is the changing of the learning process (from the student was told to a student to find out) by focusing on the formation of cognitive abilities and skills. The Facts on the ground showed that in some aspects, the process of learning physics was still not in accordance with the principles of curriculum implementation in 2013 so gave the impact on the low cognitive abilities and achievement of science process skills. Based on these problems, the research carried out by using the pre-experiment research design one group pretest-posttest that aimed to gain an overview of the increasing in students' cognitive ability and science process skills as the impact of the implementation of the integration stage learning cycle with a method of inquiry labs in physics in vocational learning. The results showed that an increasing in students' cognitive skills and science process skills with the N-gain of 0.57 and 0.69 were both located in the middle category.

Keywords : Cognitive, Inquiry Labs, Learning Cycle, Science Process Skills