

**LEARNING MANAGEMENT
OF PROGRAMMABLE LOGIC CONTROLLER (PLC)
AT SMK MUHAMMADIYAH CEPU**

THESIS



Submitted as a Partial Fulfillment of the Requirements
for Getting Master Degree of Education
in Education Management Department

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**GRADUATE SCHOOL
MUHAMMADIYAH UNIVERSITY OF SURAKARTA
2013**

APPROVAL

THESIS

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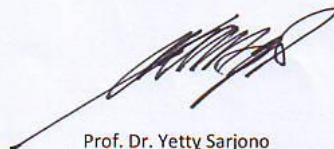
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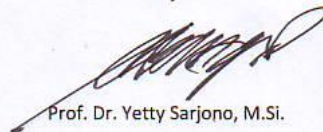
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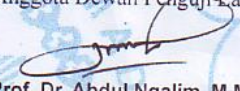
yang dipersiapkan dan disusun oleh
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dan dinyatakan telah memenuhi syarat untuk diterima

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Certify that the thesis which I submit is really a result of my own work, except the quotations and summaries that everything I have explained the source, and if later proven or can prove my thesis is the result of plagiarism, then I am willing if the degree and university diploma given to me will be cancelled.

Surakarta,

The statement maker,



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MOTTO :

1. Elaborated and elaborated continue what we believe is right and good benefit for all.
2. What do we do now biased and do not procrastinate.

DEDICATE :

Dedicate this work to:

1. Wife and my children loved
2. Fellow class of 2011 post-MPD
3. Colleagues at SMK Negeri 1 Blora

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Assalamualaikum warahmatullahi wabarakatuh

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Wassalamualaikum warahmatullahi wabarokatuh

Surakarta, 12 Juni, 2013

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Agus Supriyanto

ABSTRACT

Agus Supriyanto, Q.100 110 003. Learning Management of Programmable Logic Controller (PLC) at SMK Muhammadiyah Cepu. Universitas Muhammadiyah Surakarta.

Thesis 2012

Perkembangan ilmu pengetahuan dan teknologi telah membawa perubahan baru pada kehidupan manusia. Perubahan tersebut juga telah membawa manusia ke dalam era persaingan global yang semakin ketat. Industri berkembang dengan pesat karena produktifitas mereka ditunjang peralatan modern yang bekerja secara otomatis yang lazim disebut otomasi. Melihat kondisi ini kita harus mempersiapkan anak didik kita sesuai kebutuhan industri, supaya anak benar-benar siap pakai jika sudah terjun ke dunia industri. Untuk bisa bersaing, maka perlu pengelolaan pembelajaran yang dilakukan secara terencana, terarah, intensif, efektif dan efisien dalam proses pembangunan. Tujuan yang ingin dicapai dalam penelitian ini adalah untuk mendiskripsikan perencanaan, pelaksanaan dan evaluasi pembelajaran Programmable Logic Controller (PLC) di SMK.

Metode penelitian yang digunakan adalah penelitian kualitatif, karena peneliti ingin menggambarkan pengelolaan pembelajaran Programmable Logic Controller (PLC) di SMK. Desain penelitian adalah etnografi. Pengumpulan data berdasarkan sumbernya dapat menggunakan sumber primer dan sumber sekunder. Sumber data dalam penelitian ini terdiri dari event, informant dan dokumen. Metode pengumpulan datanya adalah observasi, wawancara, dan dokumentasi. Aktifitas dalam analisis data, yaitu data reduction, data display, dan conclusion drawing/verification. Untuk memeriksa keabsahan data yaitu: perpanjangan pengamatan, peningkatan ketekunan dalam penelitian, triangulasi, diskusi dengan teman sejawat, analisis kasus negatif, member check

Pengelolaan pembelajaran diharapkan dapat membantu proses kegiatan yang berlangsung berjalan dengan lancar. Berkaitan dengan hal tersebut, maka lembaga pendidikan membutuhkan suatu pengelolaan pembelajaran yang dapat mengatur hal tersebut. Dengan tujuan agar pembelajaran di sekolah dapat berjalan secara efektif dan efisien. Pengelolaan pembelajaran Programmable Logic Controller berhasil jika melalui tahapan perencanaan pembelajaran, pelaksanaan pembelajaran dan evaluasi pembelajaran Programmable Logic Controller

Key words: Pengelolaan pembelajaran Programmable Logic Controller (PLC)

ABSTRACT

AgusSupriyanto, Q.100 110 003. Learning Management of Programmable Logic Controller (PLC) at SMK Muhammadiyah Cepu. Graduate School Muhammadiyah University of Surakarta.

Thesis 2012

Developments in science and technology has brought new changes in human life. The changes have also brought people into the era of global competition is increasingly fierce. Industry is growing by leaps and bounds since their productivity is supported modern equipment that works automatically, commonly called automation. Seeing this condition we must prepare our students fit the needs of industry, so that the child is really ready to use when it plunged into the world of industry. To be competitive, it is necessary to the management of learning is done in a planned, focused, intensive, effective and efficient in the development process . The objectives of this research is to describe the planning, implementation and evaluation of learning Programmable Logic Controller (PLC) in SMK.

The research method used was a qualitative study, because the researcher wanted to describe the learning management Programmable Logic Controller (PLC) in SMK. The study design was ethnography. Data collection based on the source can use primary sources and secondary sources. Sources of data in this study consist of events, informants and documents. Data collection method is observation, interviews, and documentation. Activity in the analysis of data, namely data reduction, the data display, and conclusion drawing / verification. To check the validity of the data, namely: the extension of the observations, increased diligence in research, triangulation, discussions with peers, negative case analysis, member checks

Management is expected to help the process of learning activities that take place running smoothly. In this regard, the institution requires a learning management can arrange it. With the aim of learning in school can be run effectively and efficiently. Learning management Programmable Logic Controller succeed if through the learning stages of planning, implementation and evaluation of learning lessons Programmable Logic Controller.

Key words: learning management of Programmable Logic Controller (PLC)

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