

ABSTRAK

PENGARUH METODE DEMONSTRASI BERBANTUAN *CISCO IT ESSENTIALS VIRTUAL DESKTOP* TERHADAP HASIL BELAJAR PESERTA DIDIK PADA MATERI PERAKITAN KOMPUTER KELAS X TKJ DI SMK NEGERI 01 TULANG BAWANG TENGAH

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Penelitian ini dilakukan untuk mengetahui pengaruh penerapan metode demonstrasi berbantuan *Cisco IT Essentials Virtual Desktop* terhadap hasil belajar pada materi perakitan komputer yang terdiri dari pembelajaran teori dan praktik, penelitian ini dilatarbelakangi kurangnya perangkat perakitan komputer secara nyata dan metode tutor sebaya yang diterapkan sehingga tidak semua peserta didik tidak mendapat pengalaman langsung dan adanya rasa takut dan keraguan peserta didik dalam melakukan perakitan komputer. Penelitian ini merupakan jenis penelitian eksperimen dengan metode penelitian *quasi eksperimen* dan desain *Nonequivalent Group Design*. Penelitian terlaksana pada semester ganjil tahun ajaran 2022/2023 melibatkan 71 peserta didik, terdiri kelas eksperimen dan kelas kontrol. Pada penelitian ini Peserta didik melakukan demonstrasi perakitan secara virtual dengan *Cisco IT Essentials Virtual Desktop*, Adapun Kendala pada saat penelitian ialah pengelolaan kelas yang mengharuskan peserta perhatian lebih kepada peserta didik. Pengukuran hasil belajar hanya terfokus pada ranah kognitif diperoleh dari pemberian *pretest dan posttest* dibandingkan untuk melihat peningkatan hasil belajar dan psikomotorik diperoleh dari lembar penilaian praktikum. Analisis data penelitian Hasil belajar diperoleh N-gain pada kelas eksperimen sebesar 0,60 dalam kategori sedang dan kelas kontrol hanya sebesar 0,43. Uji hipotesis dengan uji *t-test* ranah psikomotorik dan kognitif hasil pengambilan keputusan *Ho* ditolak dengan taraf signifikansi sebesar 0,05. Berdasarkan hasil pengujian hipotesis hasil belajar dapat disimpulkan bahwa terdapat pengaruh signifikan penerapan metode demonstrasi berbantuan *Cisco IT Essentials Virtual Desktop* terhadap hasil belajar peserta didik pada materi perakitan komputer.

Kata kunci: *Cisco It Essentials Virtual Desktop*, Hasil Belajar, Metode Demonstrasi

ABSTRACT

THE INFLUENCE OF THE CISCO IT ESSENTIALS VIRTUAL DESKTOP ASSISTED DEMONSTRATION METHOD ON STUDENT LEARNING OUTCOMES IN COMPUTER ASSEMBLY MATERIAL FOR GRADE X TKJ STUDENTS AT SMK NEGERI 01 TULANG BAWANG TENGAH.

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This research was conducted to determine the effect of implementing the demonstration method assisted by Cisco IT Essentials Virtual Desktop on learning outcomes in computer assembly subjects, which consist of both theoretical and practical learning. The study is motivated by the lack of actual computer assembly devices and the peer tutoring method applied, resulting in not all students receiving direct hands-on experience. Furthermore, there exists a sense of fear and doubt among students when it comes to computer assembly. This research follows an experimental design using the quasi-experimental method and the Nonequivalent Group Design. The study took place during the odd semester of the 2022/2023 academic year, involving 71 participants divided into an experimental group and a control group. In this study, students conducted virtual assembly demonstrations using Cisco IT Essentials Virtual Desktop. A challenge encountered during the research was classroom management, requiring additional attention to the participants. Learning outcomes were primarily measured in the cognitive domain through pretest and posttest assessments to observe improvements in learning outcomes. Psychomotor skills were evaluated using practical assessment sheets. Data analysis revealed an N-gain of 0.60 in the experimental group, categorized as moderate, while the control group only achieved an N-gain of 0.43. Hypothesis testing using t-tests for psychomotor and cognitive domains resulted in the rejection of the null hypothesis with a significance level of 0.05. Based on the results of the hypothesis testing, it can be concluded that there is a significant influence of the demonstration method assisted by Cisco IT Essentials Virtual Desktop on student learning outcomes in computer assembly subjects.

Keywords: Cisco IT Essentials Virtual Desktop, Learning Outcomes, Demonstration Method