

Charlista Angel Puspita Gozal. 2025. Pengaruh Model Inquiry Based Learning Berbantuan Cisco Packet Tracer Terhadap Hasil Belajar Siswa SMKN 1 Kamal. Skripsi, Program Studi Pendidikan Informatika, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Evy Maya Stefany, S.Pd., M.Pd.

### ABSTRAK

Penelitian ini bertujuan untuk: (1) Mendeskripsikan keterlaksanaan model pembelajaran inquiry based learning berbantuan *Cisco Packet Tracer* pada materi media dan telekomunikasi di SMKN 1 Kamal; (2) Mengetahui pengaruh model pembelajaran *inquiry based learning* berbantuan *Cisco Packet Tracer* terhadap hasil belajar siswa; dan (3) Mengetahui respon siswa terhadap penerapan model *inquiry based learning* berbantuan *Cisco Packet Tracer*. Penelitian ini merupakan penelitian kuantitatif dengan metode *quasi experimental* menggunakan desain *nonequivalent control group design*. Populasi penelitian ini adalah seluruh siswa kelas X TKJ SMKN 1 Kamal. Teknik pengumpulan data menggunakan tes hasil belajar, lembar observasi aktivitas guru dan siswa, serta angket respon siswa. Hasil penelitian menunjukkan bahwa: (1) Keterlaksanaan pembelajaran menunjukkan hasil sangat baik, dengan persentase observasi aktivitas guru sebesar 90,0% yang berarti menunjukkan kategori “Sangat Baik” dan aktivitas siswa sebesar 89% yang menunjukkan kategori “Sangat Aktif”; (2) Terdapat pengaruh signifikan model inquiry based learning terhadap hasil belajar siswa, yang dibuktikan melalui uji-t dengan nilai  $t_{hitung} = 2,292 > t_{tabel} = 2,016$ ; dan (3) Respon siswa terhadap pembelajaran menunjukkan kategori “Baik”, dengan persentase sebesar 87%

**Kata Kunci:** *cisco packet tracer, inquiry based learning*, tes hasil belajar

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#### ABSTRACT

*This study aims to: (1) Describe the implementation of the inquiry-based learning model assisted by Cisco Packet Tracer on computer network material at SMKN 1 Kamal; (2) Determine the effect of the inquiry-based learning model assisted by Cisco Packet Tracer on students' learning outcomes; and (3) Analyze students' responses to the implementation of the inquiry-based learning model assisted by Cisco Packet Tracer. This research is a quantitative study using a quasi-experimental method with a nonequivalent control group design. The population in this study consisted of all students in class X TKJ at SMKN 1 Kamal. Data collection techniques included learning outcome tests, teacher and student activity observation sheets, and student response questionnaires. The results showed that: (1) The implementation of the learning process was categorized as very good, with the teacher activity observation reaching 90.0% (Very Good) and student activity observation reaching 89% (Very Active); (2) There was a significant effect of the inquiry-based learning model on students' learning outcomes, as proven by the t-test result of  $t_{count} = 2,292 > t_{table} = 2,016$ ; and (3) Students' responses to the learning process were in the "Good" category, with a percentage of 87%.*

**Keyword:** *cisco packet tracer, inquiry based learning, learning outcome test,*