

Thesis Title	A Study of Lower Secondary School Science Teachers' Competencies in Secondary Schools And Basic Educational Opportunity Expansion Schools in Nakhon Phanom Province
Student	Mr. Suprom Pattum
Student ID.	39064207
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Thesis Advisor	Associate Professor Dr. Raweewan Chinatragool
Thesis Co-advisor	Dr. Precharn Dechsri

ABSTRACT

This research was intended to study competencies of the lower secondary school science teachers in secondary schools and basic educational opportunity expansion schools in Nakhon Phanom province. Five categories of the competencies were science cognitive competency, science process skills competency, inquiry methods competency, scientefic attitude competency and using question competency. It was also to compare those five competencies of The lower secondary school science in Nakhon Phanom province among the science teachers in secondary schools of the department of general education with the science teachers in basic educational opportunity expansion schools of office of the national primary education.

The sample of this research was 144 science teachers, which randomed from the lower secondary school science teachers in secondary schools and basic education opportunity expansion in Nakhon Phanom province. The instruments used in this research were the questionnaires of those four science competencies and science teacher test in one categories. The reliability of the questionnaires and test were (1) science cognitive competency 0.96, (2) science process skills competency 0.97, (3) inquiry methods competency 0.87, (4) scientefic attitude competency 0.92 and (5) using question competency 0.86, with the average of 0.97. The dascrimination of scientefic attitude competency were between 2.08 - 5.42. The statistics used were mean (\bar{X}), Standard Deviation (S.D.) and t-test. The results of the research were :

1. Science cognitive competency, science process skills competency, inquiry methods competency and scientetific attitude competency of the lower secondary school science teachers in secondary schools and basic educational opportunity expansion schools in Nakhon Phanom province were high level. Using questions competency was moderate level. Which consider by categories were:

1.1 Science cognitive competency of The science teachers in secondary schools under the department of general education was high level, of the science teachers in basic educational opportunity expansion schools under office of the national primary education was moderate level.

1.2 Science process skills competency of science teachers in secondary schools under the department of general education was high level, of the science teachers in basic educational opportunity expansion schools under office of the national primary education was moderate level.

1.3 Inquiry methods competency of science teachers in secondary schools under the department of general education was high level, of the science teachers in basic educational opportunity expansion schools under office of the national primary education was moderate level.

1.4 Scientetific attitude competency of science teachers in secondary schools under the department of general education and the science teachers in basic educational opportunity expansion schools under office of the national primary education were high level.

1.5 Using questions competency of science teachers in secondary schools under the department of general education was high level, of the science teachers in basic educational opportunity expansion schools under office of the national primary education was moderate level.

2. Science cognitive competency, science process skills competency, inquiry methods competency and using questions competency between teacher who teaching in secondary schools under the department of general education and the science teachers in basic educational opportunity expansion schools under office of the national primary education were statistically difference level but scientetific attitude competency was not statistically difference.