Using E-Learning Contents for IT Examination:
Development and Evaluation

Thatsanee Charoenporn, Pornchai Tummarattananont,
Virach Sornlertlamvanich, and Hitoshi Isahara

Thai Computational Linguistics Laboratory
National Institute of Information and Communications Technology
112 Pahon Yothin Road, Klong 1, Klong Luang, Pathumthani 12120, Thailand
{thatsanee, virach}@tcllab.org, isahara@nict.go.jp

Information Research and Development Division
National Electronics and Computer Technology Center
pornchai.tummarattananont@nectec.or.th

Abstract

The advance of internet technology and multimedia has driven e-learning been achieved in educational evolution. In Thailand, many organizations, either academic or enterprise body, use information technology, particular technologies related to internet to facilitate the learning process and it goes smartly along its path. This paper will describe the status of e-learning providing for IT examination in Thailand including some accomplished examples of system and usage. "Evaluation of the effectiveness in using e-learning contents for IT examination in Thailand", a collaborative project between research institute of Thailand and Japan, will also be introduced in the very details. The project is conducted for evaluating e-learning contents for Fundamental IT Professional Examination, providing an experimental e-learning infrastructure to promote Information Technology Professional Examination in Thailand, and supporting the development of e-learning contents. The paper will focus on the technology including platform, content development, learner management system, and services that enable contents to be effectively developed, delivered, and managed.

The evaluation of the effectiveness in using e-learning contents is finally analyzed by the comparison of the score of pre and post examination and questionnaire. Students who passed e-learning course should theoretically improve in their post test examination. In fact, according to 3 main factors; internet problem, contents, and examination, the score of post-test is not higher than pre-test examination even though e-learning students get higher score than not e-learning students. Some solutions for establishing the effectiveness of using e-learning for IT examination are also proposed in the paper.