UNIVERSITI TEKNOLOGI MARA

DESIGN MODEL OF VOCATIONAL SKILLS TRAINING EVALUATION

SHADNI WARDIAH BINTI SHAHARIR @ SAHARIR

Report submitted in partial fulfilment of the requirements for the degree of

Master of Science (Information Technology)

Faculty of Computer and Mathematical Sciences

July 2012

STUDENT'S DECLARATION

I declare that the work in this report was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of my own work, unless otherwise indicated or acknowledged as reference work. This report has not been submitted to any other academic institution on non-academic institution for any other degree of qualification.

In the event that my report be found to violate the conditions mentioned above, I voluntarily waive the right of conferment of my degree and degree to be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

Name of Student   Shadni Wardiah binti Shaharir @ Saharir

Student's ID No   2009150295

Program   CS770 - M.Sc (IT)

Faculty   Faculty of Computer and Mathematical Sciences

Project Title   Design Model of Vocational Skills Training Evaluation

Signature of Candidate   ....

Date   31st July 2012

i

ABSTRACT

Current vocational education system in Malaysia is insufficient in providing skilled human resources to fulfil the needs of skills industry. Current vocational skills training evaluation approach has been criticized to be ineffective by the industry itself. This is due to evaluation information is not being used for improvement purpose. Centre of Instructor and Advanced Skills Training (CIAST) as one of the skills institutes in Malaysia is in the planning stage of developing an evaluation system for their training courses. Therefore, an effective design model of vocational skills training evaluation is required to ensure any IT solution that will benefit CIAST and the skills industry in the future.

This research is focused to propose a design model used for evaluating the vocational skills training courses CIAST. The objectives of this research are to identify the principles of vocational skills training evaluation, to select the training evaluation criteria for vocational skills training courses and finally to synthesize a design model of vocational skills training evaluation for CIAST.

Further elaboration on CIAST, problem background and literature review are included in this research. Delphi Study is used as the research methodology for data collection and the analysis of this research is done by using Analytical Hierarchy Process (AHP). The result shows criteria prioritization by consensus-building retrieved from Delphi Study to be structured into a design model for vocational skills training evaluation.

ACKNOWLEDGEMENT

TABLE OF CONTENTS