

An Information System Model for Curriculum Management According to Career Standards in Supply Chain for Thailand Professional Qualification Institute

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Abstract— This is a research and survey research study. The purpose of research study were to design and evaluate an information system model for curriculum management according to career standards in supply chain for Thailand professional Qualification Institute. The research results indicated that the model which has been developed consists of six main elements namely, Suppliers, Manufacturers, Service provider, customers and consumers. A sample groups group consists of 10 experts in arranging information technology, supply chain and curriculum were selected by purposive sampling . The experts have four years of work experience. The data is analysed by means and standardized deviations statistically. The model using Back-Box technique. The results from experts agreement of model was a high level. show the arithmetic mean of 3.60 with standard deviation of 0.76 that mean an information system model for curriculum management according to career standards in supply chain for Thailand professional Qualification institute aims to support sustainable information system development.

Keywords— *information system model, curriculum management according to career standards in supply chain. Thailand professional Qualification institute*

1. Introduction

Nowadays, an occupational standards system have significant, the Thai government has realized the importance of adjusting the country to increase its capability to compete with other countries in every aspect. Especially an occupational standards development that leads to development of quality of the product , the government has formulated the following policy: The development of an occupational standards system in Thailand who leads development and upgrading of manpower to increase the country's competitiveness.[10] Thailand professional Qualification Institute (TPQI) is a public organization and works under

the prime minister's supervision. TPQI main purposes are to increase human capital competitiveness and create economic valued added, according to expectation of the launch of asean economic community (AEC). TPQI is responsible for establishing and implementing qualification framework by determined the standard to measure performance of individual in order to guarantee "Qualifications". Thailand Professional Qualification Framework (TPQF) was established in 2012 to promote professional qualification system in the nation. TPQF was introduced as a key mechanism to enhance the progress and productivity of worker in Thailand. In the world of working, knowledge, skills and proficiencies are essentially needed for a professional worker. [7],[10] Therefore, to perform work effectively and productively, employees do need both knowledge and several skills that derived from practice and on-the-job learning. Not with stand it is called competency. In order to perform competently, each job need to have several competencies to perform work effectively and productively, and each job requires different competencies.[7] The researcher has realized the importance of an occupational standards development in order to cope with economic changes. Industrial sector the changes have included the movement toward more and more application of the concept of supply chain management information system. This is because industrial sector needs to be highly competitive due to increasingly high competitions from both within and outside the country. In order to be highly competitive, organizations in the sector need to have personnel with knowledge, ability who can work efficiently to increase output and products. The organizations, therefore, need to have sufficient information and resources to increase their values and respond to the demand of their clients. From the status declared directly above; consequently, the researchers are concerned in emerging a supply chain management model for curriculum management according to career

standards. The researchers understand the perception of supply chain management in order to realize the works upgrade of manpower to increase the country's competitiveness. Thus the researchers had an idea to develop and evaluate an information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute for develop personnel competency in each professional field.

2 Research methodology

2.1 Population

The Population groups were 5 experts in supply chain management, 5 experts information technologies .The research sample totalling 10 experts for evaluation an information system model for curriculum management according to career standards in supply chain for Thailand professional Qualification institute.

Independent variable. The independent variable is an information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute

Dependent variable. The dependent variable is the evaluation result of an information system model for curriculum management according to career standards in supply chain for Thailand professional Qualification institute

2.2 Research Tool

A questionnaire for assess an information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute

The research methods have been categorized into 5 steps, as follows:

step 1 : To study a model. Its processes are as follows: 1) Study, analyze, and synthesize the related research studies and papers 2) In-depth Interview the advisor for further examination and revision.

step 2 : To design a model, using the synthesized data from the step 1 research as a conceptual framework.

step 3 : Create the tools for evaluating the suitability of an information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute.

step 4 : Present the developed model to the 10 experts have evaluated the design of model, they give the opinion that the design of an information system model for curriculum management according to career standards in supply chain for Thailand professional Qualification Institute.

Step 5: Analyze the results of evaluation of the design using means (\bar{X}) and standard deviation

(S.D.) following the weighing criteria of appropriateness of the design using five rating scales of Likert.

3 Results

3.1 Results of an information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute were presented in Figure 1:

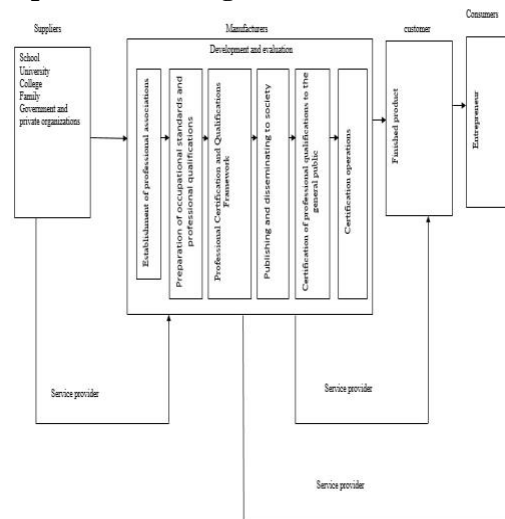


Figure 1: An information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute

3.2 Principles of an information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute

3.2.1 Suppliers

Suppliers of the student (High school/college), Supplies of the family (Parents, Siblings) , relatives, etc. government and private organizations (Scholarship).The suppliers mean the organizations that supply raw materials to the manufacturer. Raw materials in this case are students and guest who receive special quotas for admission. They can apply for admission via the computer system that can process and store the data systematically.

3.2.2 Manufacturer

Manufacturer mean Thailand professional Qualification institute is regarded as a service provider university that produces students and guest. It performs the duty to transform raw materials, or entering students and guest, into the finished products. Thailand professional Qualification institute will perform its duty of student ,guest development and evaluation according to career standards and professional qualification in supply chain activities, namely, Establishment of

professional associations, Preparation of occupational standards and professional Qualifications, Professional Certification and Qualifications Framework, Publishing and disseminating to Society, Certification of professional qualifications to the general public, Certification operations and output . The final outcomes of manufacturer, ie. Finished product with desirable quality outcomes are delivered to the society.

3.2.3 Customer

The customer mean finished product from Thailand professional Qualification institute.

3.2.4 Service provider

A service provider mean support activities that helps the main activities to run smoothly. support activities consists of organizations infrastructure ,human resources management technology development and procurement.

3.2.5 Consumers

The consumers mean entrepreneur identifies the society as the end consumer in supply chain. As Thailand professional Qualification institute are part of the society, the final outcomes of supply chain, including finished product with desirable quality outcomes are delivered to the society as the end-of-process supply chain They include the society in general and entrepreneurs who receive and/or employ the students and guest who finished product from Thailand professional Qualification institute.. Finally, the end product of qualified finished product will provide added value to the supply chain. [1],[2],[4],[5],[6],[8],[9]

4. The evaluation result for an information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute, as shown table 1 below:

Table 1: Appropriate level of an information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute

No.	List of Evaluated Items	\bar{X}	S.D.	Appropriate Level
1	Main elements	3.63	0.71	High
2	Suppliers	3.58	0.75	High
3	Manufacturer	3.60	0.96	High
4	customer	3.60	0.51	High
5	Service provider	3.60	0.96	High
6	Consumers	3.60	0.69	High
	Total	3.60	0.76	High

An information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute evaluation assessed by experts can be concluded as shown in table 1 evaluation of model by experts was evaluated at highly a appropriateness ($\bar{X} = 3.60$, S.D. = 0.76),

4.2 Conclusion and Discussion

4.2.1 Conclusion

An information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute comprises six elements namely, Suppliers, Manufacturers, Service provider, customers and consumers. The model using Back-Box technique. The overall evaluation result an information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute show the arithmetic mean of 3.60 with standard deviation of 0.76 that mean an information system model for curriculum management according to career standards in supply chain for Thailand professional Qualification institute aims to support sustainable information system development.

4.2.2 Discussion

An information system model for curriculum management according to career standards in

supply chain for Thailand professional qualification institute is considered to be highly appropriate and the design was according to the review of documents and relevant literature from both within and outside the country with the research of Chansamut and PiriyaSurawong has studied supply chain and information system about educational [1],[2],[3],[4],[5] and [6] Moreover, with the study of Kaewngam, Chatwattans and PiriyaSurawong [8] it reveals that supply chain and digital quality assurance for ASEAN university network quality Assurance (AUN-QA) are supports educational as well.

5 Recommendations

An information system model for curriculum management according to career standards in supply chain for Thailand professional qualification institute comprises six main elements, namely sub-components, Suppliers, Manufacturer, customer, Service provider and consumers is highly appropriate, if possible it should be implemented in some Thailand professional Qualification institute. The feedback information from the implementation could be used to further improve model.

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