A Knowledge Audit in the Acquisitions Department of a university library¹.

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Abstract

Purpose: This paper discusses a knowledge audit conducted in the acquisitions department of the main library of University of Colombo, Sri Lanka. The purposes of conducting this knowledge audit was to provide evidence of all knowledge which have not been documented so far but currently available in the acquisitions department; to identify all knowledge required to perform the tasks related to acquisitions; to ascertain the gaps between the currently available knowledge and the knowledge actually required for the efficient functioning of the department and to provide empirical evidence to the management for future development activities.

Methodology: The methodology employed for the research consists of six stages; 1) Orientation and background study of the department 2) diagrammatising all the functions, processes and decision making instances related to the department. 3) Analysing each function, process and decision making instance to elaborate the sequential individual tasks performed to accomplish a given job. 4) Listing all tacit and explicit knowledge sources currently available in the department. 5) Visualisation of tacit departmental knowledge indicating the strengths and weaknesses and 6) Making recommendations to the management based on the findings. Participative observations, group discussions, in-depth interviews, and focus group meetings with the senior executive staff were employed as well as review of related documentation to collect the necessary data.

Findings: The knowledge audit led to six significant and original explicit outcomes; 1) the Process Map 2) the Task Analysis 3) Inventories of current tacit and explicit departmental knowledge 4) Knowledge Need Analysis (KNA) 5) the Knowledge Map and 6) Formal job descriptions and person specifications for all posts in the acquisitions department which were not available before.

Research Limitations: The necessary environment which facilitates the knowledge audit was absent because the concept is still new to the Sri Lankan library context. Any audit instruments or protocols built up in the library context were not available for the researcher. Hence the specific instruments had to be created with the support of the similar instruments developed in other countries. A second constraint was the absence of awareness of knowledge concept among

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the staff. Articulation of their knowledge was difficult due to lack of practice and the in-depth questionnaires used in other case studies to capture organisational knowledge could not be utilised in this context. Therefore capturing the tacit knowledge was a slow and tedious process with a considerable involvement of the researcher in eliciting information from them.

1. Introduction

The following section will introduce the concept knowledge audit together with its significance in an organisational environment. It will be followed by an introduction to the university library, the methodology used for the research and as brief review of related literature.

1.1 Knowledge Audit

A knowledge audit is a planning document which provides a structural overview of designated section of an organisation's knowledge as well as details of the qualitative and quantitative characteristics of the individual chunks of knowledge within that designated section. The document also identifies the knowledge repositories in which those chunks reside (Debenham and Clark 1994).

"The knowledge audit (K-Audit) is a systematic and scientific examination and evaluation of the **explicit and tacit** knowledge resources in the company. The K-Audit investigates and analyses the current knowledge environment and culminates, in a **diagnostic and prognostic report** on the current corporate 'knowledge health'. The report provides evidence as to whether corporate knowledge value potential is being maximised. In this respect the K-Audit measures the risk and opportunities faced by the organisation with respect to corporate knowledge" (Hylton 2002, p.1).

"Knowledge audit involves a complete analysis and investigation of the company in terms of what knowledge exists in the company, where it is, who owns it and how it is created" (Cheung et.al 2007, p. 141)

All the above authors agree that Knowledge Audit is a systematic analysis of an organisation's tacit and explicit knowledge and the end product is a document which indicates the current status of the organisational knowledge with respect to its creators, owners and locations. Gaps and overlaps are also revealed so that the organisation can use it for future developments.

Within the context of this paper knowledge audit is defined as a systematic study of the tacit and explicit knowledge available in the Acquisitions Department of the Main Library of the University of Colombo. The final product was expected to be a series of documents which provide the evidence of the current knowledge owners, specific types of tacit and explicit knowledge currently available in the department and the future requirements of knowledge. Finally it was expected to use the Knowledge Audit to identify the gaps in the departmental knowledge so that the specific needs can be addressed through management decisions.

1.2 Significance of Knowledge Audit

While several authors (Liebowitz 2000, Wexler 2001, Sharma and Chowdhury 2007) have discussed the benefits of knowledge audits Hylton (2002) has elaborated its tangible benefits thus;

- 1. It provides scientific evidence to determine if corporate knowledge value potential is being maximised.
- 2. It offers a formalised and evidence based accounting of knowledge that exists or is embedded in the company, and how that knowledge moves through the company.
- 3. Via the inventory it details 'what knowledge exists in the company and where it exists', which is crucial in determining corporate knowledge-wealth and value.
- 4. It helps to identify and unearth dormant and potential knowledge resources; in particular people based knowledge, so that this knowledge can be productively used.
- 5. It enables the mapping of internal and external knowledge flow and formal and informal communications networks. This facilitates the identification of inefficiencies reflected in duplication of efforts, knowledge gaps and knowledge-bottlenecks.
- 6. It helps the company to identify and chart the knowledge that is required to support its goals and the individual tasks and activities.
- 7. It allows for the measuring and assessing of the relative value of the knowledge entities as perceived by the initiators and users, i.e. the employees.
- 8. It offers valuable measurement and assessment of the effectiveness of corporate knowledge capabilities and competency outside of the company, in particular customers, partners and even competitors.
- 9. It can gauge how efficiently and effectively the organisation captures and use knowledge held by the company's external interests, such as customers and partners.
- 10. It allows hidden knowledge to become highly visible, knowledge assets to become more tangible, and therefore more measurable and accountable.
- 11. It facilitates more efficient and effective KM initiatives and programmes.
- 12. It produces independent and objective, evidence-based knowledge-value indicators, which can then be used to plan, implement and further measure the KM project's success in achieving its defined goals. (Hylton 2002, p.4)

In the research related to the acquisitions department the expected benefits of the knowledge audit were:

- 1. To provide evidence of all the tacit and explicit knowledge which have not been documented so far but currently available in the acquisitions department.
- 2. To identify all the tacit and explicit knowledge required to perform the tasks related to acquisitions.
- 3. To ascertain the gaps between the currently available knowledge and the knowledge actually required for the efficient functioning of the department.
- 4. To provide empirical evidence to the management for future development activities.

1.3 K-Audit process

Several authors have identified a variable number of stages in conducting a knowledge audit (Table 1), but close scrutiny of all these stages indicate that there are four key stages; 1) background study 2) in-depth investigation 3) building knowledge inventory and 4) drawing the knowledge map.

Table 1 - Processes of Knowledge Audit

1. Liebowitz (2000)	Identify what knowledge exists in the target area
1. Elebowitz (2000)	Identify what knowledge exists in the target area
	Provide recommendations to the management regarding the status quo
2. Hylton (2002)	Knowledge Survey (collating, analysing and measuring corporate knowledge
2. Hytton (2002)	Knowledge Inventory (stock taking and measurement of tacit and explicit
	knowledge to determine the actual and potential knowledge wealth
	Knowledge Map (building and development of a corporate knowledge map of the
	structure and flow of knowledge.
2 Chay Lag and Chayna	ŭ
3. Choy, Lee and Cheung,	Phase 1 – Pre-audit preparation (orientation and culture readiness survey)
(2004)	Phase 2 – Audit process (In-depth interviews)
	Phase 3 – Audit analysis (Knowledge Inventory, Knowledge Map and Social
	Network Analysis)
4. Cheung et.al (2005)	Phase 1 – Orientation and background study
	Phase 2 – KM readiness assessment
	Phase 3 – Survey and interview for evidence collection
	Phase 4 – Building knowledge Inventory
	Phase 5 – Knowledge Mapping
	Phase 6 – Audit results analysis
	Phase 7 – Knowledge audit reporting
	Phase 8 – Continuous based knowledge re-auditing
5. Perez-Soltero et.al.	Stage 1 – Acquire organisation information and identify organisational processes
(2006).	Stage 2 – Identify organisation's core processes and establish measurement
	criteria
	Stage 3 – Prioritize and select organisation's core processes
	Stage 4 – Identify key people
	Stage 5 – Meeting with key people
	Stage 6 – Obtaining Knowledge Inventory
	Stage 7 – Analysing knowledge flow
	Stage 8 – Knowledge mapping
	Stage 9 – Knowledge auditing reporting
	Stage 10 – Continuous Knowledge re-auditing
6. Cheung et. al. (2007)	Phase 1 – Orientation and background study
or eneding et. al. (2007)	Phase 2 – Culture assessment
	Phase 3 – In-depth investigation
	Phase 4 – Building knowledge Inventory and Knowledge Mapping
	Phase 5 – Knowledge Network analysis and Social Network Analysis
	Phase 6 – Recommendation of KM strategy
	Phase 7 – Developing KM tools and building collaborative culture
	Phase 8 – Re-audit for measuring success of the KM implementation
7. Sharma and Chowdhury	Knowledge need analysis
(2007)	Knowledge Inventory analysis
(2007)	Knowledge inventory analysis Knowledge flow analysis
	Knowledge Mapping

The researcher identified six stages for this particular knowledge audit, which will be discussed in the methodology section.

1.4 The Acquisitions Department

University of Colombo was started in 1921 as a University College and was later established as an independent university in 1967. Currently it has seven faculties (Arts, Education, Graduate Studies, Law, Management, Medicine and Science), one campus (Sri Palee Campus) one school (University of Colombo School of Computing) and seven affiliated institutions (specialising in agro technology, human resource advancement, indigenous medicine, library and information science, medicine and microbiology). The university also has four study centres specialising in career guidance, educational research, human rights and staff development.

University library consists of the main library and two branch libraries for the faculties of Medicine and Science. Main Library which serves all the other faculties consists of five main functional departments; acquisitions, periodicals, cataloguing, reader services and the bindery. The collection of the main library consists of about 400,000 books, periodicals and other print/non print material. The users of the main library consist of 5000 undergraduates, 2000 postgraduates and 1500 academic and non-academic staff members

The library adds 5000 to 6000 materials to its stock every year and in 2008 subscribed to 138 journal titles. The books and periodical allocation for 2008 was Rs. 22 million (approximately US \$ 200000.00) out of which 9.5 million (approximately US \$ 87000.00) was allocated for book acquisitions.

Acquisitions department of the main library is responsible for acquiring all the non-journal material for the Faculties of Arts, Education, Graduate Studies, Law, Management and Science as well as for the general collection. Three Library Assistants and a minor staff member handle the work under the supervision of a Senior Assistant Librarian. The researcher, after a six year period of secondment to hold another post in the university was appointed in early 2008 to supervise the acquisitions department.

It was observed that the performance quality of the acquisitions department has declined considerably. Mistakes in the work were frequent and the attitudes towards the work were less positive. It was also observed that there has been a rapid loss of staff experienced in acquisition related work due to retirement. Staff transfers have been frequent and less experienced new staff has been assigned to the department. The new staff taking over the responsibilities had to depend on themselves to learn as clearly codified work procedures or job descriptions were absent. There are no written down instruction manuals to support the new staff. As the staff was learning through work, many trials and errors has occurred. At the same time some of the long established work procedures have been lost without even the notice of the staff.

The situation has been further aggravated by frequent changes of supervisory staff. Several senior staff members have taken leave to engage in higher studies and the workload of the remaining executive has been increased, reducing the close supervision of the activities. Although the library has automated the catalogue process, it has not been extended to the acquisitions department. The manual work process, with the increased demand for better fund management from the academic departments has become extremely time consuming and less effective.

On one hand, the acquisitions department as the heart of all the other functions of the library with the strength of the collection depending upon the annual additions to the collection, could not afford to have a low quality of service. On the other hand the academic departments are pressurising the department for speedy acquisition of material and better utilizations of departmental funds. There is no way that the acquisitions department could lag behind due to internal inefficiencies. It was necessary to identify the critical issues affecting the department and address them immediately. In order to study the departmental issue in a systematic manner, the researcher decided to exploit the concept of Knowledge Audit from the Knowledge Management domain.

1.5 Methodology

The methodology employed for the research consists of six stages;

- 1. Orientation and background study to identify the main functions, staff and resources in the acquisitions department
- 2. Drawing the Process Map depicting diagrammatically all the functions, processes and decision making instances related to the department.
- 3. Task analysis— analysing each function, process and decision making instance to elaborate the sequential individual tasks performed to accomplish a given job.
- 4. Compilation of the Knowledge Inventory listing all tacit and explicit knowledge sources currently available in the department.
- 5. Drawing the Knowledge Map visualisation of tacit departmental knowledge indicating the strengths and weaknesses.
- 6. Finally making recommendations to the management based on the findings.

In order to collect the data for this study, participative observations, group discussions, in-depth interviews, and focus group meetings with the senior executive staff were employed as well as review of related documentation.

However, there were some limitations: knowledge management is yet to gather momentum in the Sri Lankan library context, so does the knowledge audit. Therefore the necessary environment which facilitates the knowledge audit was absent. Any audit instruments or protocols built up in the library context were not available for the researcher. Hence the specific instruments had to be created with the support of the similar instruments developed in other countries. This was rather time consuming because exploratory tests had to be carried out at each stage. A second constraint

was the absence of awareness of knowledge concept among the staff. This research was the first of its kind within the Sri Lankan context and also the first time the staff reflected on their own knowledge. Articulation of their knowledge was difficult due to lack of practice and the in-depth questionnaires used in other case studies to capture organisational knowledge could not be utilised in this context. Therefore capturing the tacit knowledge was a slow and tedious process with a considerable involvement of the researcher in eliciting information from them.

However it needs to be mentioned here that due to the limited scope of the knowledge audit it did not cover several key areas covered by other knowledge audits. For instance knowledge flow and knowledge sharing practices, career development or other rewards for knowledge sharing, relationship between the executive and the non executive staff and employee job satisfactions were not studied extensively due to the straightforwardness of the work practices in the acquisitions department and also because some of these concepts could not be studied without analysing the entire library as a whole.

1.6 Review of related literature

Knowledge audits have been implemented successfully within several organisations. For instance in an airline company (Choy, Lee and Cheung 2004), in a railway company (Cheung et.al 2007), a motor manufacturing company (Cheung et.al 2005 and Kang, Park and Kim 2003), a steel manufacturing company (Kim,, Suh and Hwang 2003) and in a cooking oil manufacturing company (Heng 2001). However the application of knowledge audit is rare in the academic context but Hellstrom and Husted (2004) argues that it can be fruitful in the academic environment also. An instance of applying knowledge audit in a Dutch public library to make use of the hidden knowledge potential of the staff is recorded by Selhorst (2008) while Sharma and Chowdhury (2007) reports that a knowledge audit diagnostic tool was tested in a library. However knowledge audits in the libraries or in any other institutions in Sri Lanka have not been reported yet. Although this was a hindrance to this study carried out in the acquisitions department, the case studies mentioned above underpinned the study, to a considerable extent.

2. The findings

This section will present the findings of the knowledge audit with regard to its four key stages; drawing the process map, task analysis, compiling the tacit² and explicit knowledge inventories and drawing the knowledge map.

2.1 Process map

Through participatory observations and group discussions it was identified that six main functions are performed by the acquisitions department;

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² Polanyi (1966) has opined that there are two types of knowledge, *tacit* and *explicit*. We know more than we can explain to others. Explicit knowledge is what we can articulate to others. Tacit knowledge is the rest of our knowledge, which we cannot explain to others. Based on this definition the tacit knowledge in the acquisitions department was identified as the knowledge and skills possessed by the staff members.

- Processing orders sent by the academic departments. At the beginning of the year when the annual allocations for books and periodicals are divided among the faculties by the Deans' Committees and publicised among the academic departments, individual departments send in their requests for new books. Processing them is the main function of the department.
- 2 **Purchasing from authors directly and publishers' catalogues** Purchasing books brought directly to the acquisitions department by the authors and from purchasing from the publishers catalogues, in addition to the requests made by the academic departments is the second function.
- 3 **Accepting gifts** The third function is accepting material gifted to the library by various authors, foreign missions, research organisations etc.
- 4 **Binding of cumulative journal issues** When all the issues of a particular journal volume are received by the library, they are bound together as one volume and processed as a book to be kept in the Bound Journal Section. Binding and processing such journals is the fourth function of the department.
- 5 **Withdrawal of the weeded books** When books are withdrawn by the reader services section either due to physical damage or because new editions are available, they are sent to the acquisitions department to complete the withdrawal process. This is the fifth function
- 6 **Cost calculation of the lost books** When loses of books are reported by the reader services department, it is a function of the acquisitions department to calculate costs according to the relevant policy and inform the reader services section or the user so that they can take necessary action.

These six main functions are depicted in the Process Map (Appendix 1 given at the end of this paper). Each main function was further analysed to identify the sequential work processes and decision making instances associated with each function and they are also depicted in the Process Map. Each process and decision making instance is numbered from P1 to P19 for the ease of future reference.

2.2 Task Analysis

Task analysis consisted of an in-depth study of each process and decision making instance (P1-P19 in Appendix 1). This was performed by the researcher together with the staff of the department by cautiously going through the individual tasks that requires to be performed to complete each function. The outcome of the exercise was an extensive document which enlisted 155 individual tasks performed under each process and decision making instance. Not only the tasks but also the person responsible for each task, the specific tacit knowledge required to perform the task, explicit knowledge sources (Registers, policies software etc) used by the staff to perform each task were also identified at this stage. A fraction of the task analysis document is shown in Appendix 2.

2.3 Knowledge Inventory

Knowledge Inventory is the stocktaking of knowledge involving the counting, indexing and categorising of corporate knowledge (Hylton 2002) and the third stage of the knowledge audit of the acquisitions department was to prepare an inventory of the tacit and explicit knowledge available in the acquisitions department.

All the articulated knowledge in the form of registers, guidelines, policies, regulations, software packages etc required by the staff to carry out their work were identified as explicit knowledge and an Explicit Knowledge Inventory was compiled containing all the names of specific knowledge sources, physical quantity available from each item, format (paper-based or online) location (whether it is within or outside the acquisitions department), ease of access by the staff of the department, exact purpose of the knowledge sources, its relevance to the department, frequency of use and special remarks of each sources of knowledge. The outcome was another extensive document which spelt out the significant characteristics of all explicit knowledge sources used in the department. While Table 3 summarises the list of 43 explicit knowledge sources used in the department, Appendix 3 depicts a section of the Explicit Knowledge Inventory.

Table 3 - Explicit knowledge Inventory

	Knowledge Item		Knowledge Item
1.	Accession Number Register	23.	Foreign payment settlement copies
2.	Accession Register (Current)	24.	Government Procurement guidelines
3.	Accession Registers (Closed)	25.	Indents Register
4.	Advanced payment file	26.	Internet
5.	Annual dept allocation documents	27.	Invoice file
6.	Annual general allocation document	28.	Lists of recommended titles
7.	Bar code generation software	29.	Lost book Register (closed)
8.	Bill Register	30.	Lost book Register (current)
9.	Card catalogue	31.	Lost books communication file
10.	Catalogue database (As a tool for searching)	32.	Online Authority file
11.	Catalogue database (for data entering)	33.	Online currency converter
12.	Cost Recovery Policy	34.	Original Pro Form invoices
13.	Custom clearance file	35.	Pamphlet Number Register
14.	Delivery notes file	36.	Pamphlet Register
15.	Departmental address/Telephone Directory	37.	Petty cash file
16.	Departmental order files (current year)	38.	Petty cash register
17.	Donation Number Register	39.	Telephone Directory
18.	Donation policy	40.	Transliteration guidelines
19.	Excel Files	41.	University Financial Regulations
20.	Faculty order files (Previous years)	42.	Vendor details
21.	Faculty/Dept based communication files	43.	Yellow Pages
22.	Folders of withdrawn titles pages		

In order to compile the Tacit Knowledge Inventory of the department, an in-depth interview schedule which contained 15 areas regarding the education, training, professional experience, knowledge and skills of the five staff members was used. The findings were codified to build up the Tacit Knowledge Inventory. The staff members listed that they have seven skills and three types of knowledge among themselves while they stated that they would like further training in

five areas (Appendix 4). However, the question arose whether the staff has a clear idea of the knowledge and skills *they possess at present* or *they are expected to possess* in order to perform the functions successfully.

To answer this question the researcher made a further study of the knowledge and skills required by the staff of the acquisitions department in general. Using two previous studies on staff skills (Rehman 1997 and McNeil and Giesecke 2001), a list of knowledge³ and skills⁴ required for the acquisitions staff of the University of Colombo library was prepared and refined after extensive discussions with the Librarian. The outcome was a Knowledge Need Analysis (KNA) of the department. The KNA identified the following six categories of knowledge and skills as needed by the staff of the acquisitions department. A sample list is provided in Appendix 5.

- 1. 11 types of generic knowledge.
- 2. 21 types of general skills
- 3. 22 types of acquisition-specific knowledge.
- 4. 47 types of acquisition-specific skills
- 5. 3 types of knowledge in bibliographic database manipulation and
- 6. 4 types of skills in bibliographic database manipulation

Compiling the Tacit Knowledge Inventory and the KNA were somewhat complicated tasks when compared with the compilation of the Explicit Knowledge Inventory, as the former required indepth analysis of the unarticulated capabilities of the workers.

2.4 Knowledge Map

Knowledge map which is a visual representation of the corporate knowledge network (Hylton 2002) is the final output of the knowledge audit and it helps the management to grasp the status of knowledge and plan knowledge development strategies (Kang, Park and Kim 2003). However it is never the solution but it directs us towards information. This information, when reliable and relevant, empowers us (Wexler 2001). To visualise the corporate knowledge meaningfully five perspectives must be considered which answer five questions; what type of knowledge is visualised, why that knowledge should be visualised, for whom is the knowledge visualised, in which context should it be visualised and the how can the knowledge be represented (Eppler 2007). Five types of knowledge maps have been identified by Eppler (2001): knowledge source maps, knowledge asset maps, knowledge structure maps, knowledge application maps and knowledge development maps.

In this research it was decided to visualise the knowledge assets owned by the individual staff members for the purpose of codifying and assessing the existing levels of knowledge and skills for the use of the management and the employees of the library. The report was to be utilised as a management tool in planning human resource development. The exact visual format of the

³ Knowledge is defined in the context of the paper as the consciousness or familiarity gained by experience or learning.

⁴ Skills is defined as the special abilities acquired by training

knowledge map was a structured colour coded matrix as identified by Eppler (2007) as the most suitable format to visualise knowledge assets.

To draw the knowledge map, all the items of knowledge and skills identified at the Knowledge Need Analysis were listed in a table. Using a continuum of six levels varying from 'Very High' to 'Not Applicable to the post' the level of each knowledge / skill possessed by the individual members of the staff was assessed and recorded in the table using a particular colour corresponding to each level. This assessment was initially carried out by the researcher and later reviewed and validated by the Librarian, the senior executive staff of the library and the staff of the acquisitions department. The final outcome was a colour coded structured matrix which clearly visualises the levels of tacit knowledge assets available in the acquisitions department. Appendix 6 depicts a part of the complete map.

4. Findings

The knowledge audit presented six significant and original explicit outcomes; 1) the Process Map 2) the Task Analysis 3) Inventories of current tacit and explicit departmental knowledge 4) Knowledge Need Analysis (KNA) and 5) the Knowledge Map. These documents provided a good opportunity for the staff and the researcher to evaluate the work processes and tools used within the department with respect to their relevance. Many duplications, gaps, irrelevances as well as significances hitherto unseen were brought in to light. Most significantly, as was expected by the researcher, the knowledge audit helped solving many of the issues identified at the beginning. Especially the Process Map and the Task Analysis addressed the absence of codified work procedures. These two documents could be used by the new Library Assistants assigned to the department as well the supervising executives as guidelines to avoid mistakes in the work procedures. These codifications could be used in future not only by the departmental staff but also by the library management and the Library Science students who come for inservice-training. The Knowledge Inventory recognized the strengths and weaknesses of the staff as far as the knowledge and skills are concerned and the KNA could be used in future to provide more appropriate staff training. It also helped the management to decide on the types of education and training programmes that should be provided for the staff.

The usual practice in the library is to send the staff for training workshops organised by the other institutions but the knowledge need analysis and the knowledge map serves as an ideal guideline for the management to plan the future training programmes to address the critical gaps in the departmental knowledge requirements. Four types of education and training programs beneficial for the staff could be identified with the help of the KNA: 1) training programs conducted within the acquisitions department and 2) training programs conducted within the university library as soon as possible to fill the identified gaps in the staff knowledge 3) training programs conducted by other organisations and 4) formal Library & Information Science education programs which will address some of the gaps on long-term.

The sixth outcome is the formal job descriptions and person specifications for all posts in the acquisitions department which were not available before. These could be drawn up with the assistance of the Process Map, Task Analysis and the KNA.

Other than the tangible outcomes carrying out the knowledge audit was a unique encounter because the exercise was new to the researcher as well as the other staff. It enabled a self-evaluation opportunity which is a novel experience. A considerable amount of enthusiasm was generated by the frequent discussions between the researcher and the rest of the acquisitions staff. They were enthusiastic not only about the wide range of skills and knowledge they discovered that they possessed but also about the codified functions, processes and tasks of the acquisitions department which would help the new staff members in future. It also identified many new knowledge and skills that they require to perform their jobs and the necessity to develop the areas in which they are not so competent.

Although conducting the knowledge audit was a constructive experience, the researcher had to be careful of several human related aspects. It could have easily generated suspicion among the staff that there work is being monitored to be reported to the management resulting in fears. The researcher had to take care that the knowledge audit did not generate high expectations that it will be the answer for all if not for most problems in the department immediately after the completion of the project. Care also had to be taken not to generate negative attitudes that nothing will change after the study. The researcher had to be aware of the danger that knowledge audit becomes the end itself rather than becoming an empowering tool for the management. These issues required the researcher to communicate effectively with the staff and the management about the strengths of the knowledge audit and the opportunities it will provide. Finally it needs to be stressed here that it was a fruitful exercise which provided a series of activities to be implemented to solve the critical issues in the acquisitions department, but it is not a permanent solution to human resource development. As soon as a change occurs in the staff or the work procedures, a gap will arise in the existing and required departmental knowledge which will lead to the inevitable knowledge re-audit. It is expected that this paper would provide guidance to the other librarians who want to use knowledge audit to study systematically the departments in their libraries.

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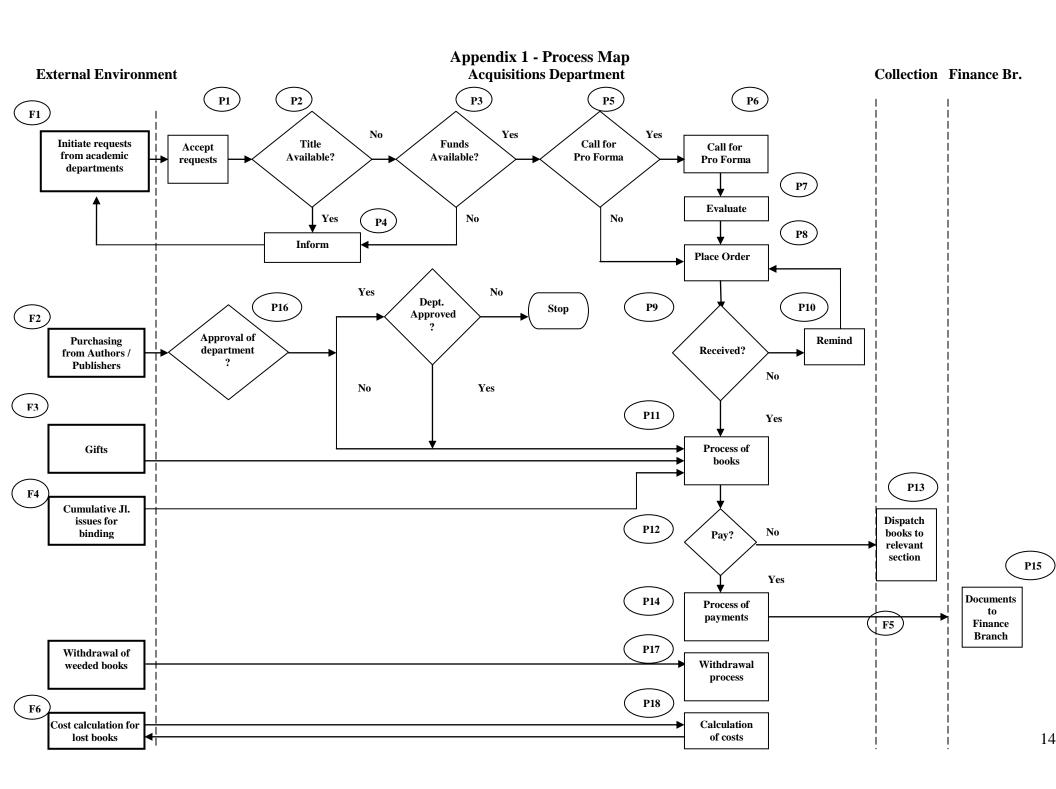
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Appendix 2 – Sample from the Task Analysis

Procedure	Sequential tasks	Responsibility	Tacit Knowledge	Explicit Kn. sources
P1. Accept departmental	1.1 Write to the Deans/Heads requesting recommendations		Knowledge of the availability of funds for the given year	Annual allocation document
recommendations	1.2 Accept the postal mail from the office1.3 Direct to SAL for necessary action	L	Ability to identify • book lists • communication relevant to Acq. from what is delivered by the office • publishers catalogues • mail which needs urgent attention • Liaise with others	Lists of recommended titles
	 1.4 Identifying mail relevant to acquisition and return irrelevant to office 1.5 Scan lists of requests / e-mail attachments 1.6 Evaluate and categorise into Fac / depts. 1.7 Distribute among staff for processing 		Knowledge of subjects taught in the university different department /unit affiliations acquisitions policy for each department/unit e-mailing Liaising with others	
P2. Check availability of requested titles	 2.1 Check appropriate database 2.2 Check on order / in process files 2.3 Inform SAL if title available 2.4 If title not available proceed to P3 	LA	 Database searching skills Identify material by Title/Author Searching in the appropriate Dept/Faculty files 	 Catalogue database maintained in Alice for Windows Card catalogue Order files
	2.5 Check accuracy of information supplied by staff and proceed to P4	SAL	Overall familiarity with previous orders	
P3. Fund Availability	3.1 Check availability of funds for the appropriate department 3.2 Inform status to SAL	LA	 Knowledge of total allocation for each department the amount spent of departmental allocations the amount committed from the departmental allocations major foreign currencies. current exchange rates Currency conversion 	Annual Faculty/dept allocation documents Online currency converter
	3.3 Check accuracy of information supplied by staff3.4 Instruct staff to proceed to P4	SAL	Thorough knowledge of fund availability for each department	4 Annual general allocation document

${\bf Appendix} \ {\bf 3-Sample} \ {\bf from} \ {\bf Explicit} \ {\bf Knowledge} \ {\bf Inventory}$

Source	No. of items	Location	Access by Acq. staff	Format	Purpose	Relevance ⁵	Frequency of use ⁶	Remarks
1. Lists of recommended titles	Many	Various academic depts	Easy	Paper /online	To generate orders for a given year	VR	F	When lists are e-mailed they are printed for calling for Pro Forma.
2. Catalogue database (As a tool for searching)	03 (Main Library, Science & Medical)	Via Intranet and Internet	Fair.	Online database	To locate availability of titles To add new records after processing (P12)	R	F	 Access depends on speed and sometimes it is slow. Three databases (Main Library, Medical \$ Science have to be accessed separately). Adding new records to the db occur external to the Acq. Process therefore it is irrelevant
3. Card catalogue	04 (Author, Subject, Sinhala & Law)	Reader Services	Fair.	Catalogue cards	To locate availability of titles. To count pages to calculate the cost according to the Lost Book Policy when a book is lost.	R	O	 Access is time consuming because the catalogues are located in a different section. Staff has to visit the section physically to search. If a price is not mentioned in the Acc. Reg. the number of pages is considered to calculate the cost of a book lost.
4. Annual general allocation document	01	Acq	Easy	Paper	To check allocations for books and periodicals and for each Faculty	VR	F	This indicates the allocation for each faculty for a given year
5. Annual dept allocation documents	01	Acq	Easy	Paper	To check allocations for book purchasing for each department	VR	F	This indicates the allocation for each department for a given year
6. Online currency converter	-	Internet	Easy	Online	To convert foreign currency	VR	F	Used to convert the prices in foreign currencies given by the foreign suppliers

VR- Very Relevant, R-Relevant, IR - Irrelevant
 F- Frequently, O – Occasionally, R- rarely

Appendix 4 - Tacit Knowledge Inventory

	Aspect measured	SA^7	LA2	LA3	L
1.	Highest level of general education	GCE/AL	GCE/AL	GCE/AL	GCE/OL
2.	Highest level of LIS education	SLLA - 1	SLLA - Final	None	None
3.	Experience in the Library	23	11	03 months	
4.	Experience in the Acq. Dept.	02	04 months	03 months	
5.	Experience in other sections similar to acquisitions	Periodicals Dept. Periodicals Dept. None 13 years Written down job descriptions are not available			
6.	Knowledge of job description in the Acq.				
7.	In the absence of a job description the method of knowing about the responsibilities in the department	SAL or AL in charge of the section assigns duties			
8.	Training in Acquisitions obtained within the last 3 years	None Not Applicable None			None
9.	Training in Acquisitions obtained within the last 5 years				None
10.	Training in other library work obtained within the last 5 years	None Not Applicable		None	
11.	Without attending any training how did you learn the work in the acq. dept.?			Work-based training given by the SAL/AL and the other co- workers	
12.	Skills possessed	1 MS Word 2 MS Excel 3 Internet searching 4 Currency convers 5 E-mailing 6 Use of Calculator 7 Use of numbering	ī	r details	Difficult to answer
13.	Knowledge possessed	1 IT knowledge 2 LIS knowledge 3 Mathematical knowledge	owledge	1 IT knowledge 2 Mathematical knowledge	Difficult to answer
	Requirement of training Yes/No	Yes	Yes	Yes	Not known
15.	Areas in which training is required	 English Internet MS Windows MS Excel Alice for Window 	vs		-

.

 $^{^7}$ SA-Staff Assistant, LA2- Library Assistant Grade 2, LA3- Library Assistant Grade 3, L-Labourer

Appendix 5 – Sample of Knowledge Need Analysis

Required Skills related to Acquisitions	
1 Ability to locate items from lists by	26 Identifying communication related to
author/title	Acq. Dept
2 Ability to match catalogues with	27 Identifying types of material relevant
academic depts.	to acquisitions
3 Assign PF numbers	28 Keyboarding skills (Sinhala)
4 Assign order numbers	29 Keyboarding skills (Tamil)
5 Assign indent numbers	30 Labelling
6 Assign delivery numbers	31 Language skills (English)
7 Assign donation numbers	32 Language skills (Tamil)
8 Bar code generation	33 MS Excel
9 Currency conversion	34 MS Windows and Word
10 Database searching skills	35 Photocopying
11 Entering data accurately in the Acc.	36 Reading mailing addresses
Register	
12 Entering data accurately in the	37 Safety of the Acq. Dept.
Database	
13 Filing	38 Searching publisher web sites
14 Folding letters and prepare for mailing	39 Sources of bibliographic information
15 Fund utilization within the allocations	40 Team work
16 Generation of lists using software	41 Telephone skills
17 Handling book trolley	42 Transliteration of Sinhala terms
18 Handling Elevator	43 Transliteration of Tamil terms
19 Handling foreign payments	44 Use of calculators
20 Handling local payments	45 Use of explicit sources of kn. in the
	Acq. Dept.
21 Handling advanced payments	46 Use of numbering machine and date
	stamps
22 Handling packages with care	47 WWW (General)
23 Handling Petty cash payments	
24 Matching titles in the original order	
and Pro forma invoices	
25 Identifying relevant folders for Filing	

Appendix 6 – Knowledge Map of skills related to Acquisitions

VH	\mathbf{H}	\mathbf{AV}	L	\mathbf{VL}	A	Not
Very High	High	Average	Low	Very Low	Absent	Applicable for the post

Required Skills related to Acquisitions Ability to locate items from lists by author/title Ability to match catalogues with academic depts. Assign PF numbers Assign order numbers Assign order numbers Assign delivery numbers Bar code generation Currency conversion Database searching skills Intering data accurately in the Accession Register Entering data accurately in the Accession Register Polding letters and prepare for mailing Folding letters and prepare for mailing Found utilization within the allocations Generation of lists using software Handling book trolley Handling foreign payments Handling local payments Handling hetty cash payments Handling hetty cash payments Handling hetty cash payments Handling thety cash payments Handling thety cash payments Handling thety cash payments Handling the petty cash payments Handling it in the original order and Pro forma invoices Identifying relevant folders for Filing Identifying relevant folders for Filing Identifying relevant folders for Filing Acceptable Reyboarding skills (Sinhala) Explosed Skills (Tamil) Language skills (Tamil) Assign and the Accept. Handling mailing addresses Safety of the Acq. Dept. Safety of the Acq. Dept. Safety of the Acq. Dept. Team work Transliteration of Sinhala terms Transliteration of Tamil terms Use of explicit sources of kn. in the Acq. Dept. Use of explicit sources of kn. in the Acq. Dept. Use of explicit sources of kn. in the Acq. Dept.
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Assign PF numbers Assign indent numbers Assign delivery numbers Assign denation numbers Bar code generation Currency conversion Currency conversion Currency description of the Accession Register Entering data accurately in the Accession Register Entering data accurately in the database Filing Filing Folding letters and prepare for mailing Found utilization within the allocations Generation of lists using software Handling book trolley Handling Elevator Handling foreign payments Handling foreign payments Handling local payments Handling local payments Handling lavanced payments Handling petwant folders for Filing Identifying relevant folders for Filing Identifying types of material relevant to acquisitions Keyboarding skills (Sinhala) Labelling Language skills (Enmil) Language skills (Tamil) MS Windows and Word Prans MS Windows and Word MS Windows and Word Prans MS Windows and Word Telephone skills Transliteration of Sinhala terms Transliteration of Sinhala terms Transliteration of Sinhala terms Transliteration of Tamil terms Transliteration of Tamil terms Transliteration of Tamil terms Transliteration of Tamil terms Transliteration of Sinhala terms Use of explicit sources of kn. in the Acq. Dept.
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⁸ SA-Staff Assistant, LA2- Library Assistant Grade 2, LA3- Library Assistant Grade 3, L-Labourer