

# Comparison of Public College Librarians' Performance, Competence, and Work Design in Indonesia and Malaysia

# Fitri Mutia<sup>1</sup>, Tri Soesantari<sup>2</sup>, Helmy Prasetyo<sup>3</sup>, Ragil Tri Atmi<sup>4</sup>, Mohd Faizal Hamzah<sup>5</sup>, & Mohammad Noorman Masrek<sup>6</sup>

<sup>1,2,3,4</sup>Information and Library Science Study Program, Universitas Airlangga, Indonesia
 <sup>5</sup>Senior Librarian, University Malaya, Malaysia
 <sup>6</sup>Faculty of Information Management, Universiti Teknologi MARA, Malaysia
 Correspondence email: fitri.mutia@fisip.unair.ac.id

#### Information

Submitted: 10-08-2023 Revised: 05-12-2023 Accepted: 16-01-2024

How to cite: Mutia, F., Soesantri, T., Prasetyo, H., Atmi, R. T., Hamzah, M. F., & Masrek, M. N. (2024). Comparison of Public College Librarians' Performance, Competence, and Work Design in Indonesia and Malaysia. Khizanah Al-Hikmah : Jurnal Ilmu Perpustakaan, Informasi, Dan Kearsipan, 12(1). https://doi.org/10.24252/kah.v12i1a2

DOI: 10.24252/kah.v12i1a2

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#### ABSTRACT

Public college libraries are crucial in developing a nation's human resources. This study compares academic librarians' performance, competence, and work design in Indonesia and Malaysia. Utilizing purposive sampling, the study included 380 academic librarians from both countries. The findings indicated no significant difference in the performance of college librarians between Indonesia and Malaysia. Similarly, no significant difference was found in the competency levels of librarians in the two countries. Regarding work design, no difference was observed in task characteristics, as indicated by a p-value above 0.05. However, significant differences were identified in the knowledge characteristics of work design, with a p-value below 0.05. A significant difference was confirmed by t-test analysis, where the t-value (4.944) exceeded the critical value (1.960) at  $\alpha$  = 0.05. These results highlight similarities and distinctions in the professional roles and capabilities of academic librarians in Indonesia and Malaysia, offering insights for potential improvements in library management and human resource development in these regions.

**Keywords:** Librarian competency; librarian performance; librarian work design; public college librarian

#### 1. INTRODUCTION

Over the last few decades, the format of libraries has shifted. What was previously a traditional library is now automated into a digital library. The nature of libraries and their services has changed drastically in dynamic ways (Harris, 2015; Lau et al., 2020; Li et al., 2019; S. Liang & Wu, 2019; Stejskal & Hajek, 2015; Xu & Du, 2019). It can be seen that the role of libraries cannot be separated from the information needs, which currently become the priority for all segments of societal development. Changes in the work environment are users' expectations in responding to the challenges of information and communication technology (ICT) advancements.

Following the changes in the work environment of the library, particularly in the college libraries, librarians face not only internal challenges but also user demands and expectations. User expectations always seem to exceed the library's capacity regarding infrastructure facilities, finances, staff, etc. Therefore, libraries must always try new alternatives to provide the best possible service for their users. The efforts that should be considered to maintain the libraries' existence in information fields include professionalism, proactiveness, and the readiness to pose as an information provider.

History records that university libraries play an important role in the development of human resources and the progress of a nation. The method, which has proven effective in increasing the rankings of several public universities in both countries, involved giving more spotlight and attention to librarians who work in public college libraries. The literature on work design is very limited in library studies. However, work design is not a new topic among researchers in other fields. The significance of work design has been statically tested to improve the work environment. Therefore, little is known about the work design situation in the library sector, especially research related to design and work competence.

Shupe et al. (2015) state that the measurement of task performance in the library field is still incomplete. No researcher has ever tried to connect it with design and job competence. Available studies by Robinson et al. (2015) provide empirical evidence on librarians regarding professional role-based competency practice. This is confirmed in Khan's (2020) research, which comprehensively discusses the relationship between competence and performance, although no work design dimensions are included.

Based on the explanation that has been described, the researchers see that there is still room for further research related to task performance and design, especially regarding librarians. Apart from that, comparative research between work performance (WP), competence (COM), and work design (WD) between college librarians in Malaysia and Indonesia has never been carried out before. Previous research only discussed one area.

In the performance dimension, several performance models in previous research always focused on behavior, not work results (Motowildo et al., 1997). In the context of this research, the proposed dimensions should represent the work environment of university librarians. Appropriate dimensions will improve the quality of data collection. As mentioned in the definition of WP, the most comprehensive study of WP was conducted by Koopmans et al. (2014). The dimensions chosen are suitable to represent the nature of WP among university librarians. This is because most of the performance of university librarians is measured by fulfilling the tasks given. Griffin et al. (2000) and Kahya (2009) claim that job and contextual performance are behavioral dimensions that independently contribute to organizational effectiveness.

The explanation of the selected competency dimensions must be generalized to suit university libraries in Malaysia and Indonesia. The proposed competency dimensions are not specific to a particular division because this study does not focus on a specific division in the library. Also, the nature of the work environment in Malaysia and Indonesia is based on job rotation. Thus, the proposed competencies should not focus on details of the scope of work. To develop this research competency, researchers refer to Khan and Bhatti (Khan, 2015; Khan et al., 2015; Khan & Bhatti, 2017; Masrek et al., 2012).

Accordingly, previous research has examined WD from various perspectives. WD studies create a better understanding of what motivational factors influence team member performance. Based on literature searches, discussion about WD and librarians is very limited. There is not much empirical evidence that researchers can refer to as a guide. However, some dimensions of WD seem to fit the work environment of university librarians. The dimensions chosen to measure WD among university librarians are well-suited to address the research objectives. As mentioned by Campion et al. (2005) and Parker et al. (2017), WD will promote positive values such as increasing WP, competence, and well-being.

This study provides a new dimension that may be applied to study WP, COM, and WD. In this study, two of the four dimensions of WP by Koopmans et al. (2014) seem to fit the purpose of this study. Again, based on the literature review, it's found various studies have proposed task performance and contextual performance as the main dimensions of the WP model (Diaz-Vilela et al., 2015).

The first WP dimension used to test public college librarians' performance is task performance. Task performance can be defined as proficiency, the technical core of behaviors, and effectiveness in adding value and performance to the given task. Although task performance is the most visible dimension in WP theory and models, Koopmans et al. (2014) define contextual performance as behavior that supports a psychological, organizational, and societal environment in which the technical core is fully operated. Bekenova (2015) believes that additional roles, although not directly related to the main job or task, still support the main task. Besides, there is no standardization of competence for college librarians in Malaysia and Indonesia. In that sense, the explanation of the selected competency dimensions must be generalized to suit university libraries in Malaysia and Indonesia.

Consequently, the proposed competency dimensions are not specific to a particular division because this study does not focus on a specific division in the library. For example, the first dimension is emotional intelligence. Khan (2020) defines emotional intelligence as the ability to understand, recognize, influence, and control the emotions of another individual. In addition, emotional intelligence can increase job satisfaction, which in turn can result in effective performance (Khan et al., 2017). The second deals with cognitive abilities, which are the ability to learn research and apply knowledge and process, including reason, analysis, and decision. Third, library leadership is one of the aspects of COM proposed in previous research by Khan (2020), Maduka et al. (2018), and Special Library Association (2016). It can be said that leadership is the basis that must be owned by each librarian. Fourth is collection management, which revolves around collection development, acquisition, sharing, protection and preservation of resources, proper management, assessment, and control of collections. Fifth is technology management, which must keep up with the times. Thanuskodi (2015) believes that as information professionals, librarians should be able to master basic technical skills in terms of hardware and software applications for library services and facilities. Sixth, research and reference services require academic librarians to excel in helping library users get information. In previous studies, COM and reference services are one of the core performance and competencies that are pivotal for librarians (Special Library Association, 2016). Seventh, content organization and structure related to cataloging, metadata, and classification activities.

However, the most prominent WD dimensions are job characteristics and knowledge characteristics. And the first dimension of job characteristics is autonomy. White (2018) defines autonomy as a scenario where workers can exercise choices and preferences in their work. Second, job variation refers to the tasks other than the main job. Third, the significance of work that can impact an individual's work to others. Fourth, job identity is the extent to which the employee does all the work that has been assigned. Knowledge characteristics are also one of the important dimensions in the WD study (Hernaus & Vokic, 2014; Morgeson & Humphrey, 2006).

Likewise, the first dimension of knowledge characteristics is the work complexity, which is assessed by the work's difficulty level. Second, Information procession can be defined as the degree to which the job requires information to fulfill the given tasks. Third, problem-solving can assist users in providing solutions and creativity in completing their work as librarians. Fourth, the variety of skills can be interpreted as the skills employees need to fulfill the given job.

This research's novelty is comparing public college librarians' performance, competence, and work design in Indonesia and Malaysia. Also, the originality of this research lies in its theory and the methods used. Because the theory fits the study's goal, which is to compare how

librarians work in both countries. To do this, it refers to performance, skills, and work methods suitable for college librarians in Indonesia and Malaysia.

In terms of research methods, previous studies mostly used a descriptive quantitative approach, which explained each dimension: performance, competency, and work design. The explanatory quantitative approach in previous research emphasized the study of the relationship, influence, and impact of each dimension. Thus, it is very rare, and in fact, there has been no research that has carried out comparisons between state university librarians from these two countries, with a fairly large number of respondents, such as 380 state university librarians with details 231 librarians from Malaysia and 149 librarians from Indonesia.

#### 2. METHODS

This study used an explanatory quantitative method approach. Explanative research aims to find an explanation of why a symptom may occur, which will later describe a cause-and-effect relationship and compare two or more samples. However, the sample in this study couldn't be determined using probability sampling because the sampling frame is not available, and the exact number of the total population is unknown. Therefore, this study used purposive sampling, a non-probability method for taking population samples. The total sample size was 380 librarians, consisting of 231 from Malaysia and 149 from Indonesia. This research compares public college librarians in Indonesia and Malaysia with the independent sample t-test p-value used to determine whether there is a difference. The data collection was done by distributing questionnaires through Google Forms. The questionnaires that have been scattered are then coded to classify the respondents' answers. A Likert scale was used to calculate data, as seen in the table.

Value
Strongly agree
Agree
Somewhat agree
Not both
Somewhat disagree
Disagree
Strongly disagree

Table 1. Likert scale

Data analysis used is (i) descriptive statistics, (ii) general method variance, and (iii) Structural Equation Modeling (SEM), which were divided into measurement models (or confirmatory factor analysis) and structural model analysis. The analysis commonly used in the descriptive analysis is a measure of the central tendency and a measure of the dispersion. Likewise, the measure of central tendency includes the mean, median, and mode, while the measure of the dispersion includes the standard deviation, variance, range, and coefficient of variation (Elifson et al., 1990; Hadi, 1993; Hasan, 2003; Johnson & Bhattacharyya, 1985; Malo, 1986; Supranto, 1986). Then, the study used the mean to measure the central tendency of the research variables and the standard deviation to measure the dispersion. Structural Equation Modeling (SEM) is a powerful technique for capturing and explaining multifaceted relationships in social science. At the same time, a Confirmatory Factor Analysis (CFA) or measurement model describes how the measured variables logically and systematically represent constructs in the model. Thus, the questionnaire has undergone pre-testing and a pilot study to ensure quality and accurate research results.

Accordingly, the data analysis method used is descriptive statistical analysis and inferential statistics with the t-test. Descriptive statistics were applied for mean, median, mode, and standard deviation. The t-test was used to test the research hypothesis, and the pooled

variance (n1 = n2) formula was used to analyze the results of the independent sample test (t-test) with the help of SPSS. Before testing the hypothesis, the data underwent the assumption test using the SPSS, which was proven normal according to Kolmogorov-Smirnov and Shapiro-Wilk tests. Similarly, it was also proved to be homogeneous after the test, according to Levene's statistics.

### 3. RESULTS AND DISCUSSION

#### Results

#### **Demographics of the Respondents**

Nationality	Frequency	Percent
Malaysia	231	60.8
Indonesia	149	39.2
Aged	Frequency	Percent
Less 25	6	1.6
26-29	23	6.1
30-34	60	15.8
35-39	79	20.8
40-44	86	22.6
45-49	59	15.5
50 above	67	17.6
Academic Qualification	Frequency	Percent
Bachelor degree	199	52.4
Master degree	158	41.6
PhD	5	1.3
High School (SMA_SMK)	8	2.1
Diploma 2	4	1.1
Diploma 3	6	1.6
Length of Service	Frequency	Percent
Less than one year	4	1.1
1-5 years	64	16.8
6-10 years	98	25.8
11-15years	99	26.1
16-20 years	57	15.0
More than 20 years	58	15.3

Table 2. Demographics of the respondents

Source: processed primary data, 2022

This section shows the demographics in this study. Of 380 respondents, 39.2% came from Indonesia, while 60.8% came from Malaysia. Furthermore, most respondents (22.6%) were aged between 40-44, followed by those aged 35-39 (20.8%). The lowest number comes from those under 25 years old. Respondents were also asked about educational qualifications; the majority indicated they had obtained a bachelor's degree (52.4%). In comparison, 41.6% had obtained a Master's degree, and in terms of length of service in college libraries, 99, or 26.1%, answered that they have been working for between 11 and 15 years, followed by those who have been working between 6 and 10 years (25.8%).

## Performance Variables, Competence, and Work Design of Public College Librarians

No	Variables	Score	Categories
1.	Performance		
	Task performance	5.95	Very good
	Contextual Performance	6.02	Very good
2.	Competence		
	Emotional Intelligence	5.99	Very good
	Cognitive Ability	5.99	Very good
	Library leadership	6.05	Very good
	Collection management	5.90	Very good
	Technology management	5.66	Very good
	Research and reference	5.62	Very good
	service		
	Content organization and	5.67	Very good
	structure		
3	Work Design		
3a	Job Characteristics		
	Autonomy	5.86	Very good
	Task Variety	5.91	Very good
	Task significance	5.91	Very good
	Task identity	5.99	Very good
3b	Knowledge Characteristic		
	Work Complexity	4.79	Good
	Information processing	5.99	Very good
	Problem Troubleshooting	5.72	Very good
	Skill Variety	5.83	Very good
	Average	5.81	Very Good

Table 3. Variable recapitulation

Furthermore, table 3 reveals the results of recapitulating the independent sample t-test for each variable.

Variables		Levene's Test for Equality of Variances					
			F	Sig.	t	df	Sig. (2-tailed)
Performance	Task	Equal variances assumed	.968	.326	118	378	.906
	performance	Equal variances not assumed			114	281.168	.909
	Contextual performance	Equal variances assumed	.052	.820	244	378	.807
		Equal variances not assumed			234	272.613	.815
		Equal variances assumed	.194	.659	-1.284	378	.200
Competence		Equal variances not assumed			-1.213	257.243	.226
Work Design	Task	Equal variances assumed	1.198	.274	1.444	378	.150
	characteristic	Equal variances not assumed			1.375	264.466	.170
	Knowledge	Equal variances assumed	3.302	.070	4.944	378	.000
	Characteristic	Equal variances not assumed			4.814	287.562	.000

 Table 4. Independent Sample t-Test Recapitulation p-value

Source: processed primary data, 2022

Source: processed primary data, 2022

#### Discussion

This section describes the average value of the performance, competency, and work design variables. Table 1 shows the results of the recapitulation of the overall average value of each variable, which is simplified into several indicators. Based on the variable recapitulation, the table shows that the highest score is on the competency variable regarding library leadership, which scored the highest, namely 6.05, which is categorized as very good. This indicator score aligns with the importance of competence measuring in college librarians (Federal Library & Information Center Committee, 2011; Khan, et al., 2017; Khan, 2020; Z. Liang et al., 2018; Maduka et al., 2018; Masrek et al., 2012; Special Library Association, 2016). It is said that leaders can be good if they have a vision and a mission. In that sense, the librarian with a leadership spirit can easily achieve the library's goals effectively and help ensure the relevance of the vision and mission of the institution in a sustainable manner.

On the other hand, the library leadership variable is followed by emotional intelligence with a score of 5.99, which indicates that librarians can understand the conditions of other individuals around them (Federal Library and Information Center Committee, 2011; Khan, 2020). This bridges excellent relationships between co-workers. In the context of this research, the competency dimension highlights emotional intelligence, which involves the ability to voice opinions, identify one's own potential and capabilities, and carry out tasks according to the professional standards of librarians. In the competency variable, the lowest score is in research and reference services, with a score of 5.62, even though, according to Hussien & Mokhtar (2018)<sup>-</sup> this service is one of the main services that must be provided by libraries, including college libraries and is often called 'the heart of services in libraries'. It cannot be denied that this service provides the information that users need, especially to answer their scientific information needs.

Next is the contextual performance variable, which has a score of 6.02. This portrays that contextual performance should be considered, even though the WP theory and model state that task performance is the most prominent dimension. The highest score on this variable confirms that contextual performance plays an important role in an organization (Koopmans, et al., 2014). This aligns with the opinion of Meyers et al. (2020), who see contextual performance as a behavior outside of formal duties. However, the role of this indicator is very crucial. An important role is embodied in conceptual performance, where this indicator depends on a person's cognitive abilities in completing tasks and relates to motivation and social values in carrying out work. High contextual performance scores refer to very high activity and commitment to an organization (Wahyuni, 2012). This is evident from the activities that must be fulfilled by college librarians. That includes carrying out their responsibilities properly, collaborating with the academic community, being innovative and active in service delivery, attending conferences and seminars, teaching information literacy, providing user education, and ensuring service satisfaction for library visitors.

The lowest score is shown in the work design variable in terms of the characteristics of the knowledge on the work complexity indicator, which is categorized as good, with a score of 4.79. It's assumed that this low score is due to the complexities of working as a librarian, which requires human resources who are capable of carrying out tasks in a professional and qualified manner (Nurwarniatun, 2019). In this information era, librarians are required to be able to work by utilizing technology to adapt to the development of the work environment (Crumpton, 2015). Technology gives new colors to library institutions, and librarians must adapt to these developments. They need to increase their knowledge in utilizing technology so that the media can facilitate their duties.

Accordingly, the results of this study indicate that the next lowest score on the work design is problem-solving, with a score of 5.72. As a matter of fact, the problems faced by librarians can be solved by implementing new ideas obtained from colleagues or experts in the field of librarianship. However, there are also internal obstacles from the librarian, who voiced doubts about carrying out others' ideas. To answer doubts about implementing new

ideas from experts, colleagues, and leaders, they need to provide examples of the success of a program. This could be due to cultural factors, such as a culture of sharing information that begins to grow and is embedded in every activity. Then, from leadership factors, the idea should be initiated by leaders or managers to explain best practices for successful implementation, i.e., an idea that has already been implemented by the head of an agency.

Likewise, table 3 reveals the results of recapitulating the independent sample t-test for each variable. The recapitulation of the independent sample t-test on each variable aims to determine whether there is a difference between public college librarians in Malaysia and Indonesia. The independent sample t-test results on the performance variable show that all p-values are above 0.05. This indicates no significant difference between Indonesian and Malaysian public college librarians in terms of task performance and contextual performance.

On the competency variable, the independent sample t-test showed a result of 0.2, greater than the cut-off value of 0.05, clearly indicating that a significant difference was not detected either. The work design variable is divided into two: the task's characteristics and knowledge's characteristics. Table 2 also shows the work design variable regarding job characteristics, which has a value of p=0.150, with no significant difference. While knowledge characteristic has a value of p=0.000, it was found to be a significant difference between public college librarians in Indonesia and Malaysia.

#### 4. CONCLUSION

Librarians are the front guards of information that enters and develops in society. In the current situation, college librarians are an important element in improving human resources in a nation and are responsible for presenting information according to users' needs. The performance, competence, and work design variables can support research objectives on public college librarians in Indonesia and Malaysia. The comparison of librarians' performance in the two countries regarding task performance and contextual performance scored above 0.05 for all p-values, indicating no difference between librarians in Indonesia and Malaysia.

Secondly, competence shows the same results with no significant difference because it has a p-value=0.2. Third, there is no significant difference in job characteristics because the p-value is 0.150. At the same time, there is a significant difference between the knowledge characteristics of librarians at public universities in Indonesia and Malaysia at p=0.000. It can be said that based on the variables of performance, competence, and work design in terms of job characteristics, there is no significant difference between librarians at public universities in Indonesia and Malaysia. In contrast, regarding knowledge characteristics, there is a significant difference between librarians at public universities in Indonesia and Malaysia.

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