



Sailing on the Path of Knowledge

Young Scholar Cultivation Workshop

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Objectives

To inspire young people's interests in academic research, National Central Library (NCL) Taiwan, R.O.C. has held the "Young Scholar Cultivation Workshop" for high school students nationwide.

In 2015, from July 13th to August 13th, 94 students in 3 batches had participated in the 4-day workshop. Professionals were invited to give lectures on different topics, such as information resources, research design, academic writing skills.



How

1. The students were divided into groups
2. Requirements
 - Complete process of doing academic research
 - Group discussion as an ice-breaker
 - Brainstormed together
3. Literature review
4. Questionnaire design
5. Data analysis
6. Presented their research findings as the result of team work

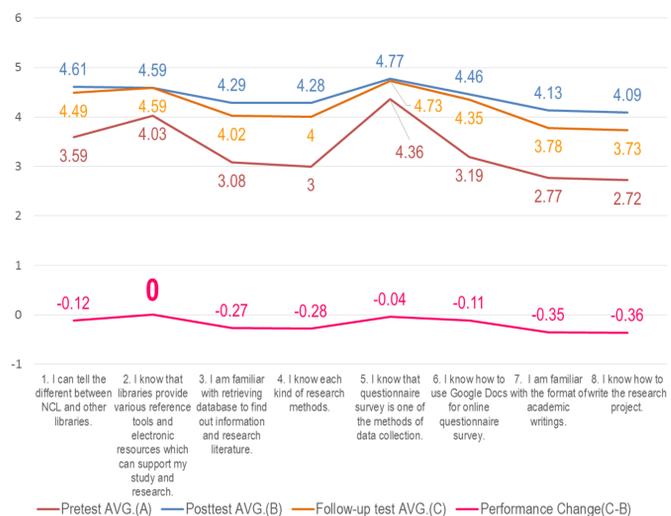
Students had experienced a wonderful journey on academic research!



Learning Outcomes

—Young Scholar Cultivation Workshop Trainee (2015)

Question	Pretest AVG.(A)	Posttest AVG.(B)	Follow-up test AVG.(C)	Performance Change (C-B)
1. I can tell the different between NCL and other libraries.	3.59	4.61	4.49	-0.12
2. I know that libraries provide various reference tools and electronic resources which can support my study and research.	4.03	4.59	4.59	0
3. I am familiar with retrieving database to find out information and research literature.	3.08	4.29	4.02	-0.27
4. I know each kind of research methods.	3	4.28	4	-0.28
5. I know that questionnaire survey is one of the methods of data collection.	4.36	4.77	4.73	-0.04
6. I know how to use Google Docs for online questionnaire survey.	3.19	4.46	4.35	-0.11
7. I am familiar with the format of academic writings.	2.77	4.13	3.78	-0.35
8. I know how to write the research project.	2.72	4.09	3.73	-0.36



Result

- Highly consistent items of trainee's learning outcomes before and after workshop
 - The shape of follow-up test's line charts were quite similar but higher than pretest's one.
 - Know that libraries provide various reference tools and electronic resources which can support my study and research (maintain positive from pretest to follow-up test)
 - Clearly understand that questionnaire survey is one of the methods of data collection (maintain positive from pretest to posttest only)
- Significantly enhanced items of trainee's learning outcomes before and after workshop
 - Familiar with the format of academic writing
 - Know how to write a research project

Conclusion

- The learning outcomes pattern consistent with learning theory, proved that the persistent learning
- Shape of follow-up test's line chart were quite similar but lower than posttest, and still higher than pretest
 - 89.8% trainee claim that after the workshop, they put what they learned into practice (N=49)
 - The other 10.2 % trainee did not have chances using library resources because in these 6 months:
 - Free to read without research purpose
 - No demands for preparing short essay temporarily
 - Focus on designated textbooks
 - Having more understanding on NCL and resources that could support research and will use afterwards



Agenda

Day	Time	Activity
Day 1	Morning	Orientation Lecture: Research Experience Sharing from the famous professor
	Afternoon	Introduction to Different Types of Libraries & NCL Tour Group Interaction
Day 2	Morning	Lecture: Research Methods
	Afternoon	Lecture: Reference Resources and Searching Techniques Activity 1: Research Topic Development
Day 3	Morning	Lecture: Guidance to the Academic Essay Writing
	Afternoon	Activity 2: Literature Review & Analysis Activity 3: Online Questionnaire Design
Day 4	Morning	Activity 4: Analyzing the results of questionnaire, drafting the essay outline and abstract, and delivery the oral presentation PPT
	Afternoon	
Day 5	Morning	Group Presentation & Evaluation
	Afternoon	Closing Interaction Time for Instructors & Students