

Development of the Learning Outcome by Using the Learning Contract for Nursing Students Who did not meet the Criterion

Vassana Pongsupasa*

Faculty of Nursing Science, St Theresa International College, Thailand

Email : vassana.p@stic.ac.th

*Corresponding author

Surang Prungdej

Faculty of Nursing Science, St Theresa International College, Thailand

Email : surang.p@stic.ac.th

Wanree Saisamuth

Faculty of Nursing Science, St Theresa International College, Thailand

Email : wanree.s@stic.ac.th

Wanee Pohnakorn

Faculty of Nursing Science, St Theresa International College, Thailand

Patchaya thongsila

Faculty of Nursing Science, St Theresa International College, Thailand

Email : patchaya@stic.ac.th

Received: 06/12/2021, Revised: 08/12/2021, Accepted: 08/12/2021

Abstract

The objectives of " A development of the learning outcome by using the learning contract for nursing students who did not meet the criterion" are 1) To compare the differences in the academic achievement of nursing students. Those whose academic achievement did not meet the criteria of St. Theresa International College during the post-application of the Learning Contract model. With the set criteria 2) To study the satisfaction of students with the learning contract model. The samples are selected from

Nursing students in the second year of the semester of the academic year 2018 who do not meet the criteria (Cumulative average score lower than 2.3) 22 students. Data collection tools included questionnaires and the learning achievement record. Descriptive statistics were used to find the mean, percentage and standard deviation. One sample t-test was used to compare the satisfaction scores in different areas with the standard criteria. The results of the study showed that the average score after using the learning contract model ($\bar{x} = 2.5$, S.D. = 0.30) was higher than the average score before using the learning model ($\bar{x} = 2.15$, S.D. = 0.40). The satisfaction of nursing students with the overall learning contract model was at a high level ($\bar{x} = 3.84$, S.D. = 0.63) and was significantly higher compared with the criteria (3.5). Statistical at the .001 level.

Keywords: learning outcome: learning contract: average grade not meet the criterion

1.Introduction

1.1 Background and Review of Related Literature

Developing people to be quality people by adhering to the principle of "people as the center of development" as the goal of national development. According to the National Economic and Social Development Plan No. 12 (2017 - 2021), said "Laying the foundation of the country in the long term Emphasize processes in conjunction with the development of educational quality. by participation in both the public, private, public, and education sectors" and the process of developing people to be of quality, one way is to improve the quality of education that focuses on learners as the main focus, aiming to develop learners to develop self-learning skills. (Self directed learning).The theory of using the learning contract, it was found that the learning outcomes of the learners were improved. As an experiment with learners of writing Japanese. It appears that more than 90% of the students assess learning contracts that have a positive effect on learners. This is an opportunity to observe one's own mistakes. get to know and understand more of their own mistakes Both have studied Strengthen the ability to learn more on your own. This is consistent with many researchers who have studied the use of learning contracts. For example, Jintaweepon Pankaew and her team (2013) studied the effect of using a learning contract on academic achievement of first year nursing students at Boromarajonani College of Nursing, Chiang Mai. found that (1) the achievement The learning outcomes of the students who studied using the learning contract after teaching were significantly higher than the group who studied by the normal teaching method at the .001 level. There was higher learning achievement

after teaching than before teaching. statistically significant at the .001 level. Usa Somchitranukit (2006) A study of the use of learning contracts on learning achievements and responsibilities of students, academic year 2006, That It Municipal School. In Uttaradit Province, it was found that the overall assessment of the learning contracts of students in Phase 2 was at a very good level. Average 3.27. The assessment scores for Phase 2 were higher than Phase 1, were in good level, with a mean score of 2.95. Overall in Phase 2, it was at a very good level, mean 3.61, the results of the portfolio assessment in Phase 2 had higher mean scores than in Phase 1, the mean 3.45. And satisfaction with learning from the performance of the student's learning contract Overall, it was at a high level, with an average of 4.41, similar to Kariya Sama (2010). A study of the use of contracts, conditions to adjust the behavior.

Faculty of Nursing St. Teresa International College is a private college that has produced nursing students to become nurses who are knowledgeable, ethical, ethical and competent in health work. In the process of learning management, there is always monitoring and monitoring of students' academic performance. By following up on the academic results of the second year nursing students, which is a year that requires both theoretical and practical study. According to the past academic follow-up, 51 students in second year students had low grades in the academic year 2016, with a lower grade point average of less than 2.3. low grades by inviting students' parents to come to know and take part in solving problems, it has not been successful. This research study the research team analyzed the problems and found a solution to the learning problems of students by using the learning contract model as a concept for developing and solving the problems of low academic performance of second-year nursing students.

The step-by-step process begins with the development of teachers as mentors. and the development of learners to develop skills for learning Practice goal setting skills. own learning planning In the process of conducting research studies Have students make a contract with an instructor. It consists of steps: The learner will be the one who set the learning goals. Identify learning objectives subject to study learning activities, learning resources, learning evaluation Evidence of learning that indicates the learning outcomes of the learners. Once the writing is complete, a copy will be sent to you. Instructor/mentor to monitor and monitor the learning progress of each learner. and students keep 1 set at the end of the process Students must submit the results of their own learning to the teacher. Therefore, the contract is terminated.

1.2 Research Objectives

1. To compare the academic achievement of nursing students with academic achievement that does not meet St Theresa International College's criteria after implementing the Learning Contract Model with the set criteria
2. To study the satisfaction of students towards the learning contract model.

1.3 Research Hypothesis

Nursing students whose grades do not meet the criteria There was an improvement in academic achievement compared to the criteria established after using the learning contract model.

1.4 Terminology Definition

Learning achievement means the results resulting from the teaching and learning process that will lead to behavioral changes in second-year nursing education. And it can be measured by the expression of all 3 areas, namely the Cognitive Domain, Affective and Psychomotor Domain, and has a GPA higher than 2.3.

Second-year nursing student, St Theresa International College means enrolled in semester 2018.

A grade that does not meet the criteria means that a second-year nursing student has a GPAX value less than 2.3.

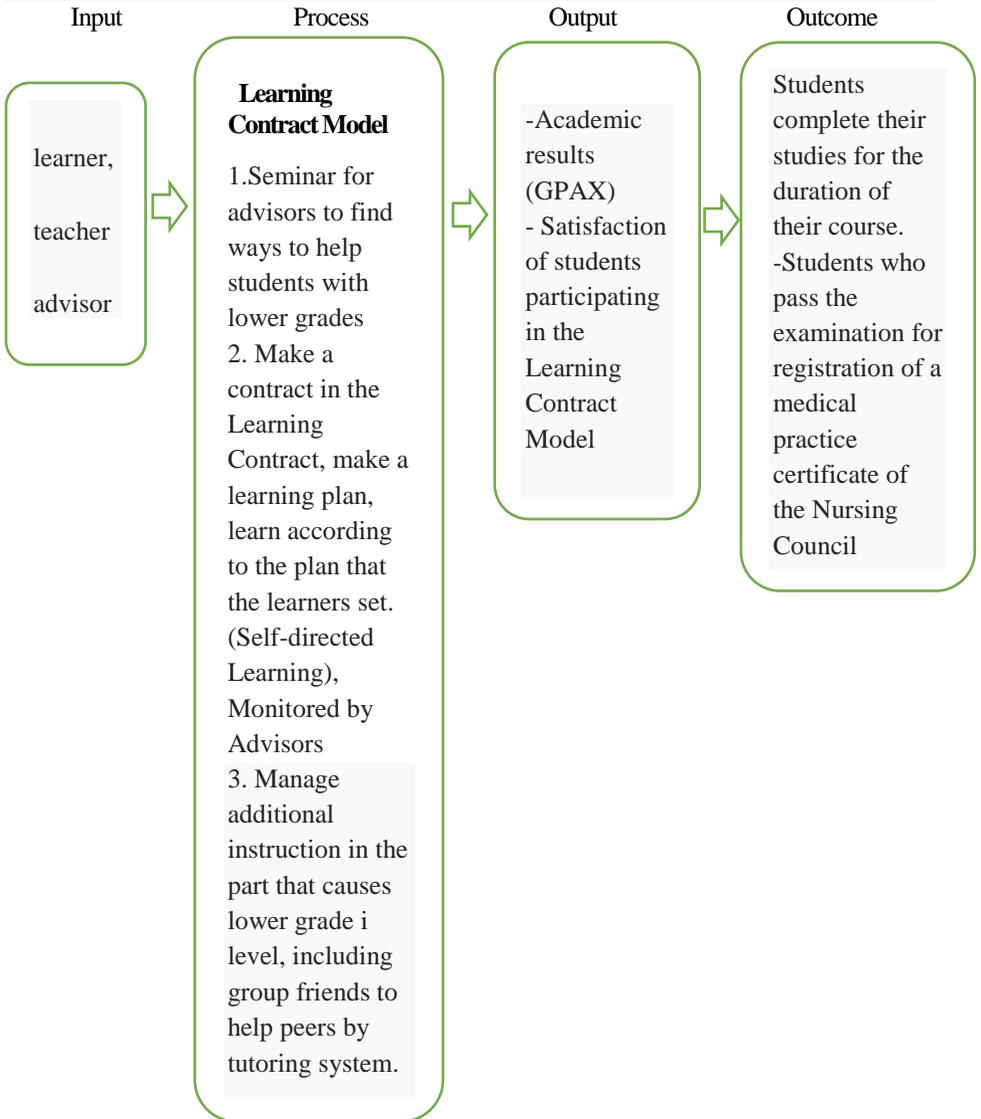
The learning contract model means 1) Organizing a seminar for advisors to find a way to help students with lower grades 2) Ask students with lower grades to analyze themselves on the reasons that result in lower grades 3) Organize learning Teach additionally in the part that is the cause of lower learning to make a learning contract with your mentor and course instructor to develop yourself by setting goals for better academic performance. and make a learning plan (Learning Plan) with a consultant to give advice and follow up periodically

1.5 Research scope

This research is research and development by using the Learning Contract Model to develop learning. by selecting a sample 22 second-year nursing students, Academic Year 2018, St. International College, with a GPAX of less than 2.3, the duration of using the Learning Contract Model was 4 months. The tools used to collect data are questionnaires and interviews Data were collected by monitoring the learning outcomes of the sample group and the historical grade point average of the second-year

students with less than 3 years of grades. Qualitative data were collected by focus group discussion. Data were analyzed. The descriptive statistics were percentage, mean, standard deviation, and one sample t-test.

1.6 Research conceptual framework



2. Research Methodology

2.1 Population and sample

Population is students of Bachelor of Nursing program. St Theresa International College, Academic Year 2018

The sample group was 22 second-year students with a cumulative GPA less than 2.3.

2.2 Research tools

It consists of the tools developed by the researcher as follows:

2.2.1 The personal data questionnaire consists of

Part 1, general information of students are age, gender, year grade, cumulative grade point average.

Part 2 Questionnaire on Student's Satisfaction towards the Learning Contract Model It is a questionnaire developed by the researcher. It consisted of 17 questions, divided into 4 areas: 1) Preparatory stage 2) Training process 3) Student practice stage and 4) Execution results. The answer characteristics are a 5-level Likert Scale.

2.2.2 Tool inspection

Validity examination by 3 experts, namely 1) nursing teaching specialists 2) educational administration specialists

3) measurement and evaluation experts Checked by the Conformity Index using IOC (Index of Item Objective Congruence) values, it was found that the Conformity Index was between .66 – 1.00 and adjusted according to the recommendations before use.

Precision test (Reliability): The questionnaire was tested (Try Out) back to another sample group of 20 people and used the data to find the reliability. Using the SPSS statistical data program until the analysis result was Cronbach 's Alpha 0.76, it was put into practice.

The learning contract model is a program developed by the researcher which consists of the following steps:

1) Analysis of the reasons for the second year of Bachelor of Nursing program students at St. Theresa International College, Academic Year 2018. Study does not meet the criteria is a cumulative grade point average (GAPX) less than 2.30

2) Prepare and implement a workshop project on "Seeking a model and a guideline to help nursing students whose academic achievement does not meet the criteria" to prepare teachers to help students.

3) Organize teaching programs to enhance learning skills. This includes listening, reading and writing skills, concept mapping, information searching and reference skills, group-based

learning skills. Different thinking skills through the nursing process until the result is writing a nursing plan.

- 4) The division of peers to help peers;
- 5) Prepare individual learning contract manuals; and
- 6) Assign nursing students whose learning achievements do not meet the criteria for learning contracts with advisors.

Achievement record form

It is a Weighted Continuous Assessment Component Report for all subjects for the second semester of the academic year 2015 - 2018.

2.3 Data collection

1. Collecting academic achievement data (cumulative grade point average:GPAX) of the sample. In the second semester, academic year 2018, after applying the learning contract model

2. To collect academic achievement data (cumulative grade point average:GPAX) of nursing students with academic achievement that does not meet the criteria. In the second semester of the academic year 2015, 2016 and 2017

3. Collect information about the opinions of the sample. towards the model using the learning contract

Data were collected on the satisfaction of the sample with the learning contract model. Statistics used in data analysis/data analysis

1. Quantitative data analysis with percentage, mean, standard deviation and t-test (One sample t-test)

2. Qualitative data analysis Content analysis was used by categorizing groups.

3. Research results

From the study, it was found that after applying the learning contract among the second year nursing students with lower grades This group of students had better grades as shown in Tables 1 and 2.

Table 1: Shows the comparison of the cumulative grade point average of students per learning contract usage pattern with the cumulative grade point average of second-year nursing students for the past 3 years)

One sample t-test	M	SD	t	df	Sig.
Cumulative grade point average after using the learning contract	2.50	0.31			
Cumulative grade point average for the past 3 years	2.15	0.04	4.49***	21	.000

*** Statistical significance at .001 level

From Table 1, it was found that when comparing the cumulative grade point average of second year nursing students, the second semester of the academic year 2018 after applying the learning contract model, with the cumulative score average of the second year nursing students, the 2 of the past 3 years. It was found that the cumulative grade point average of second year nursing students, term 2 of the academic year 2018 after using the contract format. Learning was significantly higher than the cumulative grade point average of second-semester nursing students in the second semester of the past 3 years with statistical significance at the .001 level. nursing students get better.

Table 2: Shows a comparison of overall satisfaction scores among the second year nursing students in the second semester of the academic year 2018 by using the learning contract model with criteria (3.50)

One sample t-test	M	SD	t
The mean of satisfaction of nursing students in the second semester of the the second - year nursing students of the academic year 2018 towards the use of learning contracts in various fields			
Preparation	3.75	0.28	12.50*
Training	3.71	0.23	2.15*
operational	4.09	0.10	12.91***
Outcome of the performance	3.81	0.07	9.31**
Overall	3.85	0.22	6.498***

***Statistical significance at .001, **Statistical significance at .01, *Statistical significance at .05

From Table 2, the results of the analysis Comparison of the average of overall satisfaction of the second year nursing students in the second semester of the academic year 2018 by using the learning contract model with the criteria (3.50) found that the average of overall satisfaction of the nursing students higher than the criteria a statistically significant at the .001 level.

Table 3 Shows the number and percentage of nursing students. Classified by opinions about Factors influencing nursing students to have better academic performance from using the learning contract model (N = 22)

Comment	Amount	percentage	No.
1. Have time management by arranging a reading schedule	7	32	4
2. Read more books and review lessons.	7	32	4
3. I have a friend to help me study	12	55	1
4. Meet with an advisor/encouragement (2-4 times)	8	36	3
5. Enthusiastic, interested in learning more	9	41	2
6. Less mobile phone usage	4	18	8
7. More supports from parents	5	23	7
8. Continue the project.	7	32	4

From Table 3, obtained from the group discussion, the content was analyzed and categorizing opinion groups. It was found that the sample students had an opinion that the factors affecting nursing students had better academic performance. After applying the learning contract model are as follows Opinion No. 1: There were 12 friends to help study the book, representing 55 percent. The second was nursing students. 9 people were more enthusiastic about learning, accounting for 41%. The 3rd place was found with advisors encouraging 8 people, accounting for 36%. The 4th was time management. by arranging a reading schedule and having reading more books including reviewing the lessons of 7 people, representing 32 percent, and nursing students suggested that this project should be undertaken. to help the next generation of students.

4. Conclusions and Discussions the results of the research.

Part 1: General information of students nursing students with lower grade point averages were all female students. This is the proportion of female students more than males in all educational institutions. To understand the different knowledge of learners as well as their limited, make teacher manage various and appropriate teaching and learning. This is consistent with the research of (Harutai Asakij and Premsak Asakij, 2011) who studied the characteristics of desirable graduates and the satisfaction of graduate users.

Part 2 : The results of the learning contract model to improve academic achievement of 22 nursing students at St Theresa International College who had underperformed grades, 22 people who participated in the activity. It was found that the learning achievement was significantly higher at the .001 level. This may be because the Learning Contract is a tool for planning learning and experiences by working together between learners and classmates. Therefore, it is a way to help develop learners from passive students to become self-directed learning. quality self-directed learners to become life-long learners in the future. This is in line with Kanthayan Yongyuthwichai and Rangsipat Yongyuthwichai, 2016 who have studied building desirable characteristics and academic achievement of students in the subject of secretarial management and computer administration by using learning. Teaching a learning contract. It was found that the achievement test of the students after the learning contract teaching method had a significantly higher average score than the average score before learning at the .05 level. It is also consistent with the research of Jintaweeporn Pankaew, Thitirat Thong-in and Srichan Chanreerk (2014) who studied the effect of using a learning contract on academic achievement among nursing students. It was found that the learning achievement of the students who studied using the learning contract after teaching was higher than the group who learned by the normal teaching method and the learning outcome after teaching was significantly higher than before teaching at the . 001

Part 3 : Factors that affect learning better: The opinions of the participants found that the factors affecting nursing students had better academic performance. After using the learning contract model, there was a friend to help tutoring (55 percent). This is consistent with the study of Atikant Phudeethip who studied academic achievement in science and moral behavior. Eight basic ethics of Grade 3 students receiving peer-to-peer group learning. It was found that students who received peer-to-peer group learning had a statistically significantly higher achievement in science subjects at the .01 level than before learning at the .01 level. Kohn and Vaida (1975) said that the peer-based learning approach Refers to how to allow students to do learning activities in pairs or small groups. by jointly doing activities for all skills allowing students to help each other and interact with each other Use language to communicate and find meaning on your own. Teachers are responsible for providing guidance and assistance in organizing the teaching and learning process in the classroom. by allowing learners to be responsible from the learning process themselves.

Part 4 : The results of the satisfaction of nursing students to the learning contract model showed that the they satisfy this model in high level with the mean 3.84, standard deviation was 0.63 and was significantly higher than the benchmark (3.5) at the .05 level. This is consistent with the study of (Chetduang Hongsrichinda, 2014) and (Kanthayan

Yongyuthwichai and Rangsiat Yongyuthwichai, 2016) whose satisfaction rating was at a higher level. make students enthusiastic More interested in studying and knowing better time management which is benefit for teaching by using a learning contract.

5. Recommendations

1. Should apply the learning contract model to improve all classes of nursing students whose academic achievement does not meet the criteria.
2. For the further study, should study on the development of a cooperative learning model (positive interdependence) among nursing students who are mostly living together in dormitories

References

- Asakij, H. & Asakij, P. (2011). *Desirable characteristics of graduates and satisfaction of graduate users. Faculty of Business Administration and Arts, Rajamangala University of Technology Lanna*. Chiang Mai: Rajamangala University of Technology Lanna, Payap Region, Chiang Mai.
- Hongsrichinda, C. (2014). *Development of personal knowledge management system using learning contracts and peers to promote the ability to work in academics of graduate students*. (Doctoral Dissertation, Chulalongkorn University). Thailand: Chulalongkorn University.
- Pankaew, J, Thongin, T., & Chanreuk, S. (2014). Academic Achievement of Nursing Students. *Journal of Nursing and Education*, 7(3), July-September 2014.
- Phudeetip, A. (2009). *A Study of Science learning achievement and moral behavior eight basic ethics of grade 3 students receiving peer-to-peer learning* (Master's Thesis, Srinakharinwirot University). Thailand: Srinakharinwirot University.
- Sama, K. (2010). *The use of contracts, conditions to adjust the behavior of responsibility for sending work to develop achievement learning among Mattayom 2 students, Bhukit Pracha Uphathom, Jok I Long District, Narathiwat, Thailand*. Retrieved from https://www.kroobannok.com/news_file/p.77452471450pdf.
- Somchitranukit, U. (2006). *Effects of the use of learning contracts on educational achievement and responsibility. Classes of Mathayomsuksa 2/4 students, academic year 2006, Tha-It Municipal School Uttaradit Province*. Uttaradit : Ministry of education.
- Yongyuthwichai, K & Yongyuthwichai, R. (2016). *Creating desirable characteristics and achievements in secretarial management and computer administration by using learning contract teaching*. Phitsanulok : Naresuan University.

- Asakij, H. & Asakij, P. (2011). *Desirable characteristics of graduates and satisfaction of graduate users. Faculty of Business Administration and Arts, Rajamangala University of Technology Lanna*. Chiang Mai: Rajamangala University of Technology Lanna, Payap Region, Chiang Mai.
- Hongsrichinda, C. (2014). *Development of personal knowledge management system using learning contracts and peers to promote the ability to work in academics of graduate students*. (Doctoral Dissertation, Chulalongkorn University). Thailand: Chulalongkorn University.
- Pankaew, J, Thongin, T., & Chanreuk, S. (2014). Academic Achievement of Nursing Students. *Journal of Nursing and Education*, 7(3), July-September 2014.
- Phudeetip, A. (2009). *A Study of Science learning achievement and moral behavior eight basic ethics of grade 3 students receiving peer-to-peer learning* (Master's Thesis, Srinakharinwirot University). Thailand: Srinakharinwirot University.
- Sama, K. (2010). *The use of contracts, conditions to adjust the behavior of responsibility for sending work to develop achievement learning among Mattayom 2 students, Bhukit Pracha Uphathom, Jok I Long District, Narathiwat, Thailand*. Retrieved from https://www.kroobannok.com/news_file/p.77452471450pdf.
- Somchitranukit, U. (2006). *Effects of the use of learning contracts on educational achievement and responsibility. Classes of Mathayomsuksa 2/4 students, academic year 2006, Tha-It Municipal School Uttaradit Province*. Uttradit : Ministry of education.
- Yongyuthwichai, K & Yongyuthwichai, R. (2016). *Creating desirable characteristics and achievements in secretarial management and computer administration by using learning contract teaching*. Phitsanulok :

Naresuan University.