

Skills Evaluation System Promotion Program
Project Implementation Report
【Kingdom of Cambodia】

- ◆ December 11~15, 2018
- ◆ Phnom Penh City, Kingdom of Cambodia
Preah Kossamak Polytechnic Institute (PPI)
- ◆ Sequence Control 3rd Grade

December 2018

1. Outlines of project

Implementation period:	December 11 (Tue) ~15 (Sat), 2018
Venue:	Phnom Penh City, Kingdom of Cambodia Preah Kossomak Polytechnic Institute (PPI)
Job trades:	Sequence Control 3rd Grade
Lectures / Workshops:	Skills Assessors Training and Skills Evaluation Trial
Experts:	Mr. Akira Uchiyama (DENSO CORPORATION)
Participants:	SAT: 7 people Trial: 7 Examinees, 7 Assessors

Implementation schedule

Date	Contents
December 11 (Tue) 08:30AM~04:30PM	【Skills Assessor Training (SAT)】 Opening ceremony Explanation about: <ul style="list-style-type: none"> • SESPP (Skills Evaluation System Promotion Program) • Skills Evaluation System in Japan • role and responsibilities of assessor • sequence control work • assignments (practical test and written test)
December 12 (Wed) 08:30AM~04:30PM	【Skills Assessor Training (SAT)】 1) Scoring standard and procedures 2) Implementation standard and procedures 3) Role-play trial
December 13 (Thu) 08:30AM~04:30PM	【Skills Assessor Training (SAT)】 1) Explanation about operation of skills test 2) Explanation about necessary equipment 3) Check testing devices and status of equipment 4) Preparation and check of devices for practical test (Assessors: Preparation of the trial next day)
December 14 (Fri) 07:30AM~05:00PM	【Skills Evaluation Trial (SET)】 Practical test: (1st time: 5 examinees) Starting time: 8:00AM (95 min) Scoring from 10:30AM Theoretical test(60min): 2:30PM (10 examinees) Review and reflection on improvement Preparation and check of devices for practical test (Assessors: Preparation of the trial next day)
December 15 (Sat) 08:30AM~04:30PM	【Skills Evaluation Trial (SET)】 Practical test: (2nd time: 5 examinees) Starting time: 8:00AM (95 min) Scoring from 10:30AM Summary and review Closing ceremony

2. Review of the course

- Seven skills assessors have been cultivated this time. We were able to carry disciplined seminar out while all the participants putting efforts into it positively. In particular, as "Sequence Control work" is an undisclosed job trade, retention of confidential related to the skills test influences fairness and equity more than the other job trades. I firmly explained about mindset not only the compliance of the cautionary points in operation and deepened their understandings of its importance.
- Although the assessors have knowledge pretty much about basic skills of "Sequence Control work", they do not have many practical experiences so they must be trained. Since they are well grounded, we will train them to improve their skills mainly on handling the PLC and programing, and will continue the cultivation in order to conduct the skills test by themselves fairly and equitably as an assessor.

3. Results of questionnaire

■ Participants in SAT: 7 people (Respondents : 7 people)

Satisfaction level:	very satisfied=6	satisfied=1	neither=0
Effectiveness level:	very effective=4	effective=2	neither=1
Desire for continuation level:	strongly wish=4	wish=2	neither=1

【Opinions / Comments / Preferred job trades to implement】

- Continue the project to conduct a formal skills evaluation system.
- For next year, please conduct the longer training course than this year because I think it was too short for me.
- Study tour to visit industry or company.
- I request for study tour to factory to see the actual process related to the PLC.
- Training course should be shorter to 4 days or 4 and a half days. (1 day= 8h 30m)
- This program is very important so it should be improve more for next year.
- I think the details of the exam should be informed to examinees at least one month before so they can practice well and also understand the equipment to be used.
- I believe that SAT can upgrade to level 2 in Cambodia.
- I would like you to train assessors about technical and more methodology for evaluation.
- The followings are the preferred job trades to implement.
 - Sequence Control 1st grade (1 person)
 - Sequence Control 2nd & 3rd grade (2 persons)
 - Maintenance Generator / Repair Generator (1 person)
 - Control Panel
 - Sensor and alarm system (1 person)
 - Supervisory Control and Data Acquisition (SCADA) and Building Management Systems (BMS) (2 persons)
 - Electrical Installation (2 persons)
 - Electrical Maintenance (1 person)
 - Motor Control (1 person)

■ Examinees: 7 people (Respondent: 7 people)

Satisfaction level: very satisfied=2 satisfied=4 neither=1
Effectiveness level: very effective=3 effective=4 neither=0
Desire for continuation level: strongly wish=6 wish=1 neither=0

【Opinions / Comments / Preferred job trades to implement】

- Further Skills Evaluation Trial is required. Please carry out the same examination, Sequence Control 3rd grade once again.
- It is necessary to equip PLC.
- The followings are the preferred job trades to implement.
 - Motor Control System 3rd grade
 - Conveyor 2nd grade
 - Pneumatics 3rd grade
 - Drawing electricity
 - Electrical&electronic control
 - Sensor Skill
 - Technical English

■ Assessors: 7 people (Respondent : 7 people)

Satisfaction level: very satisfied=7
Effectiveness level: very effective=6 effective=1
Improvement level
of Evaluating Ability: improved very much= 7
Desire for continuation level: strongly wish =6 wish =1

【Opinions / Comments / Preferred job trades to implement】

- I would like Japan to implement the same trail next year because I would like to learn more. Please support on the point of maintenance as well.
- The followings are the preferred job trades to implement.
 - Supervisory Control and Data Acquisition (SCADA) and Building Management Systems (BMS) (2)
 - Pneumatics 3rd grade (1)
 - Sensor and alarm system (2)
 - Electrical Maintenance (1)
 - Sequence Control 3rd grade (by relay and timer) & 2nd grade (2)
 - Motor Control 3rd grade (1)

* The number in brackets () is number of respondents.