

SKILLS EVALUATION SYSTEM
PROMOTION PROGRAM (SESPP)

**REPORT ON THE TRAINING SESSION
IN CAMBODIA**

Experts	Mr. UCHIYAMA Hiromasa / Japan Institute of Plant maintenance
Period	Monday, December 2, 2019 ~Friday, December 6, 2019
Venue	Phnom Penh City, King of Cambodia National Technical Training Institute (NTTI)
Training course	Skills Evaluation Method (SEM) , Skills Evaluation Trial (SET)
Trade & Grade	Electrical System Maintenance, 3rd grade

December, 2019

Outline of Results

1. <SEM>

Number of participants: 8 / Number of completed participants: 8

<SET>

Number of assessors: 8

Number of examinees: 9 / Number of successful applicants: 0

2. Schedule

Date & Time	Contents
Dec. 2 (Mon) 8:30 AM ~4:30 PM	【Skills Evaluation Method (SEM) Day 1】 <ul style="list-style-type: none"> · Opening Ceremony · Explanation about 5 days schedule for this training course · Overview of the procedure of Skills Assessor Certification (SAC) · Review of SET in 2018 · Review practical test execution procedure (revised version) · Review marking standard (revised version)
Dec. 3 (Tue) 8:30 AM ~4:30 PM	【Skills Evaluation Method (SEM) Day 2】 <ul style="list-style-type: none"> · Explanation about the check sheet of Skills Assessor Certification (SAC) · Exchange of views on theoretical test questions
Dec. 4 (Wed) 8:30 AM ~4:30 PM	【Skills Evaluation Method (SEM) Day 3】 <ul style="list-style-type: none"> · Assignment of the chief and the roles for Skill Evaluation Trial (SET) Day 1 · Equipment maintenance, creating the assignment, setting parts with defect · Preparation of the venue, materials and supplies
Dec. 5 (Thu) 8:30 AM ~4:30 PM	【Skills Evaluation Trial (SET) Day 1】 <p>9:05 Theoretical test (8 examinees: 1 examinee was marked as absent due to being late)</p> <p>13:50 Scoring theoretical tests</p> <p>Practical test (1st : 5 examinees)</p> <p>10:30 Assignment 1 (50 min., maximum time: 60 min.)</p> <p>12:30 Assignment 2 (30 min., maximum time: 50 min.)</p> <p>14:10 Scoring practical tests</p> <ul style="list-style-type: none"> · Reflection and review of the improvement · Assignment of the chief and the roles for Skill Evaluation Trial (SET) Day 2
Dec. 6 (Fri) 8:30 AM ~4:30 PM	【Skills Evaluation Trial (SET) Day 2】 <p>Practical test (2nd : 4 examinees)</p> <p>9:00 Assignment 1 (50 min., maximum time: 60 min.)</p> <p>10:35 Assignment 2 (30 min., maximum time: 50 min.)</p> <p>12:40 Scoring practical tests</p> <ul style="list-style-type: none"> · Clean up the equipment · Summary

3. Reviews

Since Electrical System Maintenance 3rd grade, "Skill Evaluation Method (SEM)", in Cambodia is for those who understand the outline in the "Skill Assessor Training (SAT)", instead of the lecturer proceeding unilaterally, the training was proceeded by establishing a "think for oneself" based on the revised "operating procedure" "marking standard" and based on the results and the knowledge of each participant. In addition, questions and other issues were first discussed by all the participants and improved through mutual study.

There were 9 examinees of the trial, and 5 of them passed the theoretical test, however, unfortunately there were no successful examinees of the practical skills test. Judging from the state of the work, there was a certain level of skill in the preparation of circuit diagrams and wiring work, but there was a procedure that seemed to lack experience in finding and repairing defective parts. In addition, there was a lack of consideration in terms of safety, such as wiring work while the power was on, and we asked the assessors to make sure this point in their regular education.

The participants of the SEM had a very high level of participation, active discussions, many suggestions for improvement, and many voluntary actions, and they were able to proceed without problems under good teamwork. As the next training will be Skills Assessors Certification (SAC), we hope that as many people as possible will meet the requirements.

4. Results of questionnaire

<SEM>

◆Participants : 8 (Respondents : 8)

Satisfaction level:	Very satisfied	= 8	Satisfied	= 0	Neither	= 0
Usefulness level:	Very useful	= 8	Useful	= 0	Neither	= 0
Needs of continuation:	Must continue	= 8	Should continue	= 0	Neither	= 0

【Meaningful contents】

- Development of assessors and assignment of each assessor's role
- Assignment of each assessor's role, creating the assignment, scoring system, deducting marks
- Operational management, how to improve the time allocation of works
- Wiring technology, creating the wiring with defect and parts with defect
- Preparation of assignment and overall of skills test, operational management and assignment of assessor's roll
- It was a wonderful training and everything was important.
- Process and preparation of skills test
- Advice from the expert, advice during the trial, standard of conduct

【Suggestions for improvement】

- Improvement of translation and interpretation in Khmer is expected.
- I hope to create the assignment which is easy to understand.
- I want to participate in the training next year.
- I hope that the training will be continued to 2nd and 1st grades.
- I hope that the assignment will be different from one of this time for next year.
- I want to know the detection method of relay timer with defect.

【Opinions / comments / preferred training session for the future】

- Trainings of both theoretical subject and practical skills of the Electrical System Maintenance 1st and 2nd grades are expected.
- Motor Control Maintenance (2 persons)
- Control Panel Assembling, creating the assignment
- PLC+HMI+VFD, SCADA System
- It is a very useful content and I hope it will continue in the future.

◆Manager

Needs of continuation: Must continue = 1

【Suggestions for improvement】

- None

【Opinions / comments / preferred training session for the future】

- I would like to create the assignments of both theoretical subject and practical skills of the Electrical System Maintenance 1st and 2nd grades as well.

<SET>

◆Assessors : 8 (Respondents : 8)

Satisfaction level:	Very satisfied = 8	Satisfied = 0	Neither = 0
Usefulness level :	Very useful = 8	Useful = 0	Neither = 0
Improvement level:	Very improved = 6	Improved = 2	Neither = 0
Needs of continuation:	Must continue = 8	Should continue = 0	Neither = 0

【Suggestions for improvement】

- Creating the assignment in accordance with the syllabus of the institute (NTTI).
- I want the assignment of theoretical subject expressed more clearly.
- I want to make use of this year's experience and lead to next year.
- I want the training continued next year.
- I want the notices at the test site clarified.

【Opinions / comments / preferred training session for the future】

- I would like the content to be suitable for each grade in creating of the assignments of both theoretical subject and practical skills.
- Implementing Motor Control Maintenance (2 persons)
- I want the training of 1st and 2nd grades to be implemented.
- I want to try other electrical trades.
- 1st and 2nd grades of Power Distribution and Control Panel, and Electrical System Maintenance (2 persons)

◆Examinees : 9 (Respondents : 9)

Satisfaction level:	Very satisfied = 6	Satisfied = 2	Neither = 1
Usefulness level :	Very useful = 5	Useful = 4	Neither = 0
Needs of continuation:	Must continue = 5	Should continue = 3	Neither = 1

【Suggestions for improvement】

- More practice needed.
- Please indicate the ability that examinee should have. I have never learned Electrical System Maintenance before.
- I want to ask for help with educational materials.
- I should have taken the training before taking the test because I don't have the experience of the theoretical test.
- The time required for drawing the wiring diagram and connecting the cables was a little short.
- I want this training continued.

【Opinions / comments / preferred training session for the future】

- Upgrade level
- Power Distribution and Control Panel
- I want this training continued next year.
- I would like to participate in this kind of training if I have a chance.

◆Manager

Needs of continuation: Must continue = 1

【Suggestions for improvement】

- I hope it will continue next year.

【Opinions / comments / preferred training session for the future】

- I want to teach Mechatronics (Please teach us Mechatronics.)