

SKILLS EVALUATION SYSTEM
PROMOTION PROGRAM (SESPP)
**REPORT ON THE TRAINING SESSION
IN CAMBODIA**

Experts	Mr. UCHIYAMA Akira / DENSO CORPORATION
Period	Monday, December 6, 2021 ~ Friday, December 10, 2021
Venue 【Remote lecture】	Phnom Penh City, Kingdom of Cambodia Preah Kossamak Polytechnic Institute (PPI) Hachioji City, Tokyo, Japan Studio Always
Training course	Skills Assessor Training (SAT), Skills Evaluation Trial (SET)
Trade & Grade	Sequence Control work, Grade 2

January, 2022

Outline of Results

1. Number of Participant

<SAT>

Participants: 6 / Completed participants: 6

<SET>

Assessors: 6

Examinees: 9 / Successful applicants: 2

2. Schedule

Date & Time	Contents
Dec. 6 th (Mon) 8:30~16:30 (All local time)	【Skills Assessor Training (SAT)】 ①Opening ceremony · Confirmation of participants' attendance, self-introduction of participants and local staff · Explain the precautions and schedule ②Roles and responsibilities of assessors, points to keep in mind upon implementation of practical tests ③Outline of grade 2 skills test, differences between grade 1 and grade 2 ④Confirmation of test contents (practical tests including planning work, theoretical test) ⑤Exercise ⑥Today's revision
Dec. 7 th (Tue) 8:30~16:30	【Skills Assessor Training (SAT)】 ①Confirm the content of grade 2 skills test (practical test assignments), practice ②Confirm the content of grade 2 skills test (grade 2 assessor test), confirm the content of translated answers ③Confirm the content of translated answers, practice the assignments, Q&A ④Confirm next day's schedule · Create test questions (practical test), check sheets; role-play based on the check sheets · Set up the venue for the skills evaluation trial which will be held 2 days later ⑤Today's revision
Dec. 8 th (Wed) 8:30~16:30	【Skills Assessor Training (SAT)】 ①Create grade 3 practical test and a grade 3 check sheet ②Create Practical test timetable, check test equipment & items, and prepare for the test ③Briefing by assessors, simulation of the test day ④Today's revision ⑤Questionnaire answered by participants
Dec. 9 th (Thu) 7:30~16:30	【Skills Evaluation Trial (SET)】 ①Final briefing before the test ②Reception, draw lottery to determine seating for examinees, I/O allocation lottery (result: B), explain the precautions ③Start the practical test (8:15, 95 minutes; 4 examinees from training institutes) · End of standard time (extension time starts at 9:50, time out 10:10)

	<ul style="list-style-type: none"> · Operational check, I/O check ④ Scoring work, prepare for the theoretical test ⑤ Final briefing before the theoretical test ⑥ Reception, draw lottery to determine seating for examinees, explain the precautions ⑦ Start the theoretical test (60 minutes, 9 examinees from training institutes & private companies) ⑧ Questionnaire answered by examinees (training institutes) ⑨ Scoring work (implemented by a group of 3 assessors as usual) ⑩ Today's revision, reflecting improvements · Cleaning, operational check, prepare for the skills evaluation trial to be held the next day, check next day's schedule
Dec. 10 th (Fri) 7:30~14:40	<p>【Skills Evaluation Trial (SET)】</p> <ul style="list-style-type: none"> ① Final briefing before the test ② Reception, draw lottery to determine seating for examinees, I/O allocation lottery (result: A), explain the precautions ③ Start the practical test (8:20, 95 minutes; 5 examinees from private companies) <ul style="list-style-type: none"> · End of standard time (extension time starts at 9:55, time out 10:15) · Operational check work, I/O check ④ Questionnaire answered by examinees (private companies) ⑤ Scoring work ⑥ Closing ceremony <ul style="list-style-type: none"> · Wrap-up, review, Q & A, future issues ⑦ Questionnaire answered by assessors <p>* The Secretariat asks Mr. Vanny to get the questionnaire for local manager</p>

3. Reviews

- In the beginning, Cambodia started with Sequence Control Work grade 3, but the ability of the assessors was insufficient for grade 3 equivalent, and the Skills Assessor Certification (SAC) was delayed due to the influence of Covid-19 pandemic. In view of these reasons, we upgraded Sequence Control work to grade 2 to implement this time.
- I was able to deepen my understanding by grasping and actually experiencing the differences and levels of difficulty between grade 2 and grade 3 of Sequence control work. Regarding programming which is the most difficult part, we have raised the overall level in order to gradually upgrade from last year, and half of the assessors are nearly able to achieve the grade 2. We can expect that they will be certified as assessors next year.

4. Questionnaire Results

<SAT>

◆ Participants: 6 (Respondents: 6)

Satisfaction level:	Very satisfied = 3	Satisfied = 3	
Usefulness level:	Very useful = 3	Useful = 3	
Needs of continuation:	Must continue = 2	Should continue = 4	

【Improvements and proposals】

- I want to attend the training courses on higher levels, grade 2 and grade 1.
- I would appreciate if you could reduce the number of days in the next training course.

- I would appreciate if participants can get evaluated and certificates of completion.
- I would appreciate if you could increase the number of assessors and training days.
- I would appreciate if you could continue this project next year and increase the number of examinees.

【Opinions / comments / preferred trades for the future】

- Mechatronics
- Continuation of this training course
- Automation system, SCADA (Supervisory Control And Data Acquisition) system
- I would appreciate if you could give guidance on creating FUs and Fbs codes of PLC
- Electrical wiring, electronic circuits
- National skills competition
- In the future, I would like to attend the training course on pneumatic control trade.

◆Manager: 1 (Respondents: 1)

Needs of continuation: Must continue = 1

【Improvements and proposals】

I would appreciate if you could implement this training course on grade 2 and other trades.

【Opinions / comments / preferred trades for the future】

Electrical wiring, electronic circuits, national skills competition and manufacturing automation

<SET>

◆Assessors: 6 (Respondents: 6)

Satisfaction level:	Very satisfied = 4	Satisfied = 2
Usefulness level:	Very useful = 4	Useful = 2
Improvement level:	Much improved = 1	Improved = 5
Needs of continuation:	Must continue = 4	Should continue = 2

【Improvements and proposals】

- I would appreciate if you could increase practical test assignments.
- I am so grateful for the course.
- I would appreciate if you could increase the number of examinees.

【Opinions / comments / preferred trades for the future】

- Mechatronics
- SCADA (2)
- Continuation of this training course
- Automation system
- Electrical wiring, electronic circuits, industrial automation
- I would appreciate if you could add training courses on pneumatic control trade.

◆Examinees: 9 (Respondents: 9)

Satisfaction level:	Very satisfied = 6	Satisfied = 3
Usefulness level:	Very useful = 7	Useful = 2
Needs of continuation:	Must continue = 3	Should continue = 6

【Improvements and proposals】

- I would appreciate if you could give me more time.
- I would appreciate if you could improve the wordings in theoretical test questions.
- I would appreciate if you could implement a training course on how to use the training device before the test.
- I would appreciate if you could implement this test annually.
- I would appreciate if you could implement a 5~7-day training course before we take the test. (2)

【Opinions / comments / preferred trades for the future】

- SCADA
- Motor control
- Continuation of this training course on grade 2
- Upgrade of sequence control
- PLC with HMI (Human Machine Interface)
- All trades relevant to electric

◆Manager: 1 (Respondents: 1)

Needs of continuation: Must continue = 1

【Improvements and proposals】

I would appreciate if you could implement this training course on grade 2 and other trades.

【Opinions / comments / preferred trades for the future】

Electrical wiring, electronic circuits, national skills competition and manufacturing automation