

SKILLS EVALUATION SYSTEM
PROMOTION PROGRAM (SESPP)

**REPORT ON THE TRAINING SESSION
IN CAMBODIA**

Experts	Mr. UCHIYAMA Akira / DENSO CORPORATION
Period	Monday, January 25, 2021 ~ Friday, January 29, 2021
Venue 【Remote lecture】	Preah Kossomak Polytechnic Institute (PPI) (Phnom Penh City, Kingdom of Cambodia) Hotel Crown Palais Chiryu (Chiryu City, Aichi Prefecture, Japan)
Training course	Skills Evaluation Method (SEM), Skills Evaluation Trial (SET)
Trade & Grade	Sequence Control work, 3rd grade

March, 2021

Outline of Results

1. <SEM>

Number of participants: 7 / Number of completed participants: 7

<SET>

Number of assessors: 7

Number of examinees: 11 / Number of successful applicants: 1

2. Schedule

Date & Time	Contents	
Jan. 25 (Mon) 8:30~16:30	【Skills Assessor Training (SAT)】 Technical instruction (Level of skills test 2nd grade) <ul style="list-style-type: none"> • Design (flowchart) • Programming 	
Jan. 26 (Tue) 8:30~16:30	【Skills Assessor Training (SAT)】 Technical instruction (Level of skills test 3rd grade) <ul style="list-style-type: none"> • Design (flowchart) • Programming • Confirm the Checking Sheet 	
Jan. 27 (Wed) 8:30~16:30	【Skills Assessor Training (SAT)】 Technical instruction <ul style="list-style-type: none"> • Hardware configuration of PLC • Electricity in general • Confirm the Work Test Evaluation Method Preparation for the trial <ul style="list-style-type: none"> • Create the contents of Practical Test • Create a Checking Sheet • Confirm and amend the contents of Practical Test • Check up the contents of Academic Test 	
Jan. 28 (Thu) 8:30~16:30	【Skills Assessor Training (SAT)】 Preparation of Skills Evaluation Trial (SET) Confirm and amend the contents of Academic Test 【Skills Evaluation Trial (SET)】 Setup the Venue (PLC, Testing Kit, Tools) Setup for the Test (Examination Paper, Related Documents)	
Date & Time	Contents	Note
Jan. 29 (Fri) 8:00~16:30	【Skills Evaluation Trial (SET)】 Practical Test (11persons) Start Time: 7:30 (Standard 95min, Finishing time 115min) Scoring Start Time: 9:30 Written Test (60min): 13:00 (9 persons) Scoring Start Time: 14:30 Feedback and Wrap-up	Practical Test Standard Time: 1H35min Discontinue Time: 1H55min Written Test Standard Time: 1H

3. Reviews

I have trained 7 assessors. The training this time was held on-line to respond to COVID-19 prevention. Due to the limitations of equipment's function and operational skill for online training, I couldn't grasp all the happenings in detail at the site. While the training was carried out successfully with the cooperation of the locals, I felt with this experience in mind that it would be very difficult to carry out Skill Assessors Certification (SAC) online.

As "Sequence control" involves high proficiency in programming and high knowledge of the electrical control, we were working hard to enhance our abilities by using the 2nd and 3rd grade of the exam questions from practical test. I assumed that the assessors' level had been raised overall, and some of them with excellent skill would reach to the next level (2nd grade) soon.

As for the creation tool of theoretical written test questions, the necessary preparation have been completed and we are now nearly at the goal. Next fiscal year, I expect that further improvement of the assessors' skill and better environmental setting including the creation tool of theoretical written test will help completion of Skill Assessors Certification (SAC) .

4. Results of questionnaire

<SEM>

◆Participants 7 : Respondents 7

Satisfaction level:	Very satisfied =6	Satisfied =1	Neither =0
Usefulness level	Very useful =7	Useful =0	Neither =0
Needs of continuation	Must continue =6	Should continue =1	Neither =0

【Most significant program】

- Creation of the exam questions project
- Sequence control work
- Skills Assessors Training(SAT)
- Practice, tests, evaluations for 2nd grade
- Competency assessment will be beneficial in the future
- Skills Evaluation Method (SEM) and Skills Evaluation Trial (SET)

【Suggestions for improvement】

- Sequence Control work 1st grade
- Continuous support to Cambodia

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

- Sequence control work 2nd grade
- Electrical system maintenance 2nd grade
- Power grid
- Control panel
- Automation skills
- How to operate the other models than Mitsubishi

◆Manager :1 (Respondents 1)

Needs of continuation: Must continue =1

【Suggestions for improvement】

- None

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

- Power Grid

<SET>

◆Assessors : 7 (Respondents : 7)

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

【Suggestions for improvement】

- I would like to know other important points
- I would like to take the 1st grade exam
- Continuous support for Cambodia
- I would like you to continue the training period for 5 days in the future

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

- Sequence control work 2nd grade
- Electrical system maintenance level 2
- Power grid
- Electric control panel
- I would like to aim higher level
- HMI(Human Machine Interface)
- Automation skills

◆Examinees : 11 (Respondents : 11)

Satisfaction level:	Very satisfied = 5	Satisfied = 6	Neither = 0
Usefulness level:	Very useful = 4	Useful = 7	Neither = 0
Needs of continuation:	Must continue = 6	Should continue = 4	Neither = 1

【Suggestions for improvement】

- Training period should be more than 1 week
- Clearer explanation required for the remark of exams
- How to respond to the examinees who don't follow the instructions(Especially for high risk activities)
- More time required for reading the guideline of exam, ideally prior to the exam date
- There should be more examinees
- Clearer and concise instructions

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

- More technical training should be done (safety method and maintenance method)
- Sequence control
- Electro pneumatic
- Technology and management
- Maintenance skills
- Motor control and motor repairing
- Digital circuit, PLC programming

◆Manager:1 (Respondent : 1)

Needs of continuation: Must continue = 1

【Suggestions for improvement】

- None

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

- Power grid