



Fast-Track Skills Assessment Pilot Project

Implementation period (from July to December, 2014)

**Report of the First Round
Reported by chief assessors**



Supported by
giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

In collaboration with Swisscontact







Assessor Report of Assessment
 Presented by
 U Aye Min Min (Chief Assessor)
 Assessor Group
 Air-con Installation

Assessor Group

Our priority is the reliability of industry.

No	Name	Institution
1	U Aye Min Min	AKI School of Engineering
2	U Khin Maung Oo	AKI School of Engineering
3	Daw Kyi Kyi Pyone	Myanmar Engineering Society
4	U Aung Htay Lwin	Ministry of Industry
5	U Aye Kyaw	AKI School of Engineering
6	U Hla Myo Oo	Ministry of Industry



Outline of Presentation

- Candidates and Organizations
- Assessment method
- Preparation process
- Procedure for testing/assessment
- Test instruments versus existing skill standard
- Review on test instruments and environment

Private Company	Gender	Number of Candidates
CHIGO	Male	1
GMT	Male	5
REG	Male	3
FRESH	Male	5
MITSUBISHI	Male	10
TOTAL		24

Competent / Not yet competent

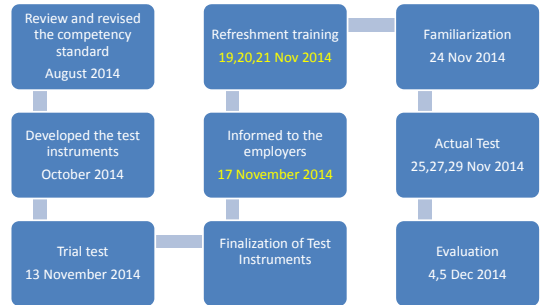
	CU-1		CU-2		CU-3
	Assessment Criteria for Practical	Multiple Choice Questions	Assessment Criteria for Practical	Multiple Choice Questions	Multiple Choice Questions
CE-1	6 points	23/28	2 points	10/15	1/2
CE-2	4		1		
CE-3	6		2		
CE-4	6		1		
CE-5	6		1		
CE-6	6				

• Candidate must be complete **all jobs of CU 1 during time allowed** and performance must be meet **all assessment criteria**.

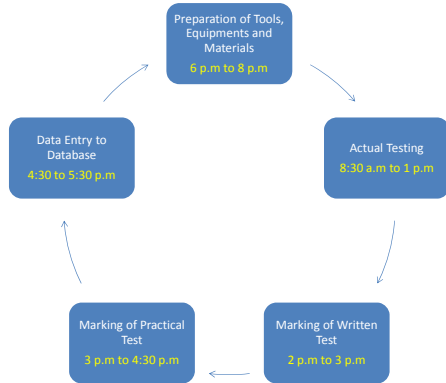
• For written test, candidate must be get the score in minimum as follows.

CU-1 **23/28**
 CU-2 **10/15**
 CU-3 **1/2**

Preparation Process



Procedure for Actual Testing



Sufficient Time allowed for Practical Test (2 hr 30 minutes)

Test	Practical	Time allowed
Trial	For CU 1 <i>Carry our initial installation works</i>	2 Hours
Actual Test	For CU 1 For CU 2 <i>Practice House Keeping</i>	2 Hours 15 minutes
	Extra time	15 minutes

Time allowed for Written Test (MCQ) 45 Units 1 Hour

Competency Standard of Air-con assistant installer (level-1)

CU 1

- Carry out initial installation works
- 6 competency elements

CU 2

- Practice house keeping
- 5 competency elements

CU 3

- Receive and respond to workplace communication
- 2 competency elements

Competency based assessment

CU 1

- Practical
- MCQ 28 points

CU 2

- Practical
- MCQ 15 points

CU 3

- MCQ 2 points

Needs for Test Instruments

- **Test item bank** for written test
- Suggested books or references for candidates

(in English/Burmese/ethnic language)

Test Environment

- Floor (dusty) – difficulty for cleaning
- Direct sunlight to test booth
- Generator set
- Voltage Stabilizer
- Room for assessors and restoring documents
- Wall maintenance every after testing
(cost and time consumed)

Important MAJOR aspects

- Sufficient assessor
- Qualified assessor
- National competency standard based test project/instruments

Need to consider

- What **kind of assessment/test** will be conducted in next round?
- National competency standard based assessment?
- Training school based assessment?

Thank you

*Any comment and
question?*



National Skill Standard Authority (NSSA)

Sponsored By GIZ
Cabinet Maker Level – (1)

Presented By
Maung Maung Lin
Chief Assessor

Assessment Procedure And Approached

- ❖ Trial Test (25.11.2014)
- ❖ Refreshment Training (26.11.2014)
- ❖ Familiarization (27-28.11.2014)
- ❖ Actual Test(29-30.11.2014)

Trial Test

- ❖ On 25.11.2014 Trial Test is made by/ with 2 candidates at No (1,2,3)Furniture Factory, which is situated in Ahlone Township, Yangon.
- ❖ Trial test gives experience that candidate can finished within sufficient time for Oral and Practical Test.



- ❖ Firstly ,intended to call and test (23) Candidates and expected to pass (18) person, it may consists (2)trial test Candidates.
- ❖ But, it is not really happened in implementation.

Refreshment Training

- ❖ On (26.11.2014) (Wednesday) ,Refreshment Training has been made at CVT- Testing Center, situated in North Dagon Township.
- ❖ In practical (20) Candidates only seated in exam, consist of trial test(2) candidates.
- ❖ 10 Candidates are from Public sector, another Candidates are from Private sector.



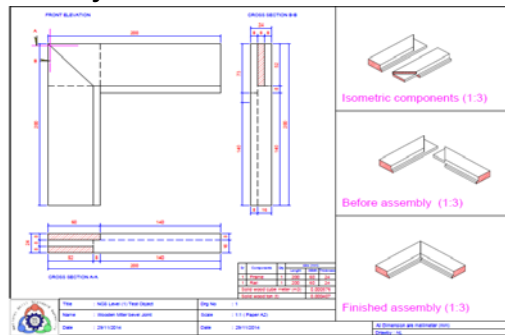
- ❖ Refreshment Day (1) morning section,(5) Assessors and Headmaster U Tun Tun of North Dagon Training Center speech to candidates regard with First Track, situation of supported by GIZ and lesson of practical test and oral test questions.



- ❖ In Refreshment Day (1) evening section, Cabinet Maker Demonstrator, ASEAN skills competitor, has demonstrated test piece, it is miter joint (Tenon and Mortise)



Test Object of Cabinet Maker Level-1



Familiarization Day (1)

- ❖ On (27.11.2014) (Thursday), 10 Candidates from public sector are divided by two groups. 5 Candidates held familiarization session in morning and another 5 candidates in evening as actual test day.
- ❖ Challenge of first familiarization day is facing all new experiences for candidates.



Familiarization Day (1) Evening Section Record Photo



- ❖ All candidates pass in oral test question except one but in practical test non of them are not finished within limited time (2) hours.
- ❖ Examination, Environment, Modernized new tools, Personal Protective Equipments (PPE) are challenges for oldschool candidates.
- ❖ Assessors decided not to change the time table of oral and practical test question.



- ❖ Traditional Horse Bench is used as unique feature.



Familiarization Day (2)

- ❖ On (28.11.2014) (Friday), 10 Candidates from private sector are also divided by two groups.
- ❖ Tested by previous day as actual test.
- ❖ All candidates pass in oral test question but the most of them can't make practical test piece in limited time.



Familiarization Day (2)

- ❖ Assessors seat meeting and decided to change timetable, give more time (30)min in practical test.



Actual Test Day (1)

- ❖ On (29.11.2014) (Saturday) morning 5 candidates from public sector are tested by oral and practical test.
- ❖ Oral test time is 30 minutes, preparing time is 30 minutes and practical time is 2 hrs and 30 minutes. (Total 3 ½ Hours).



- ❖ On (29.11.2014) (Saturday) evening another 5 candidates from public sector are tested by above procedure, started at 12:30 p.m.
- ❖ All candidates (10) persons pass in oral test, but in practical test. (2) candidates are not yet competent (NYC) or fail.
- ❖ 8 candidates are competent (or) pass from public sector.



- ❖ On (30.11.2014) (Sunday) morning 5 candidates from private sector are tested by oral test at 08:30 A.M. Practical test start at 09:30 A.M.
- ❖ Evening, another 5 candidates are also tested by above procedure.



- ❖ 10 candidates from private sector pass in oral test, but 2 candidates are not yet competent in practical test.
- ❖ 8 candidates are competent (or) pass from private sector.



- ❖ In Cabinet Maker Level-1, 20 candidates enter examination.16 candidates are Competent (C) and 4 candidates are Not Yet Competent (NYC)

Final Result of Cabinet Maker Level (1)
According to Passing Marks

Sr.No	Candidate Name	Oral Test Marks(70%)	Practical Test Marks(70%)	Total	C (or) NYC	Remarks
1	U Ye Latt	98	93	191	C	
2	U Aung Zaw Moe	99	91	190	C	
3	U Nya Lin Tun	100	88	188	C	
4	U Kyaw Soe Win	100	87	187	C	
5	U Tun Ya	96	90	186	C	
6	U Naung Wunna Shio	100	83	183	C	
7	U Tun Min Myat	100	81	181	C	
8	U Hlaing Oo	96	84	180	C	
9	U Kyaw Hkaw Bo	93	87	180	C	
10	U Myo Hkhe Oo	97	79	176	C	
11	U Zaw Myo Hlaing	100	74	174	C	
12	U Pyae Phyo Oo	89	83	172	C	
13	U Pyae Sothe Hein	93	79	172	C	
14	U Thein Zaw	98	70	168	C	
15	U Myo Ko Ko	87	74	161	C	
16	U Win Kyin	81	71	152	C	
17	U Myo Min Thu	95	65	160	NYC	
18	U Kyaw Nang	95	57	152	NYC	
19	U Tun Hla	85	66	151	NYC	
20	U San Aung	94	52	146	NYC	

Way of Assessment

- ❖ Make Assessment by two ways
 - (1) Oral Test by Check List
 - (2) Practical Test by Rubric Method
- ❖ National Competency Standard of Cabinet Maker Level-1
Consists of 8 Units, 35 elements.
- ❖ 70 questions in Oral Test, cover with all element. One units consists of 10 questions but unit -7 and units -8 consists 5 questions respectively.

- ❖ 20 questions for one candidates in oral test.
- ❖ 5 assessors seated and tested to 5 candidates at the same time.
- ❖ In Oral test, 70% and above is competent score.
- ❖ In practical test ,tested by rubric method .Limited time is 2½hours.In Cabinet Maker Level-1 Practical is tested both process and product.
- ❖ In Rubric method, maximum score is 312 marks. 217 marks and above is 70%.It is competent.

Test Development

- ❖ Firstly, Rubric method consists of 4 steps.
(1)Unacceptable(2)Satisfactory (3) Good and (4)Excellent. Find it difficult to decide with big gap of marks.
- ❖ In Actual test day to we develop the practical test marking scheme.
- ❖ Change the Rubric Method of 4 steps to 8 steps.
(1)Bad(2) Fair-1(3) Fair-2(4) Fair-3(5) Fair-4(6) Good(7) Better (8)Perfect

Rubric Method of step 4 to step 8.

Making Tenon & Mortise Joint

Candidate's No:

Performance Criteria	Items to be Measured	Raw Score (R)								Score	Max Marks Possible
		Award '0' score for non-performance of item or if item performed does not meet specification; otherwise, award score accordingly									
		0	1	1.5	2	2.5	3	3.5	4		
Safety	Wear appropriate PPE	0	1	1.5	2	2.5	3	3.5	4	<33(1)	3(3)
1. Selected material	1.1 No defects visible on selected materials	Bad	Fair	Fair	Fair	Fair	Good	Better	Perfect	<33(2)	3(3)
	2.2 Chosing face for better appearance	Bad	Fair	Fair	Fair	Fair	Good	Better	Perfect	<33(1)	3(3)
2. Check Dimension	2.1 Thickness of wood after processing,limber size (24mmx90mm)	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	<25(2)	3(2)
	2.2 Cut 2 sticks to length 200mm	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	<33(2)	3(2)
	2.3 Profile after staining (8mmx16mm)	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	<25(2)	3(2)
3. Marked Mortise and Tenon	3.1 Tenon size 8mm thick,8mm wide and 52mm length	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	<33(2)	3(2)
	3.2 Mortise Dimension 8.2mmx24mmx90mm	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	<33(2)	3(2)
4. Assembled	4.1 Saw line >=0.5mm or chips on tenon and groove	Defect	Defect	Defect	Defect	Defect	Defect	Defect	Defect	<32(2)	4(2)
	4.2 Fitting with minimum force	Bad	Fair	Fair	Fair	Fair	Fair	Good	Perfect	<25(2)	3(2)
4. Assembled	4.2 No bent joints visible	Bad	Fair	Fair	Fair	Fair	Fair	Good	Perfect	<25(2)	3(2)
	4.1 Check by passing hands on joints and flat	Bad	Fair	Fair	Fair	Fair	Fair	Good	Perfect	<33(2)	3(3)

Rubric Method of step 4 to step 8.

Making Tenon & Mortise Joint

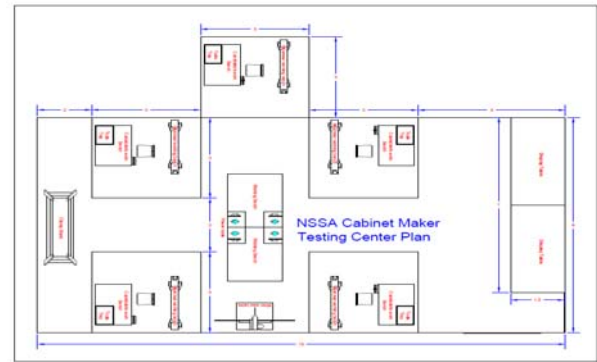
Candidate's No:

Performance Criteria	Items to be Measured	Raw Score (R)								Score	Max Marks Possible
		Award '0' score for non-performance of item or if item performed does not meet specification; otherwise, award score accordingly									
		0	1	1.5	2	2.5	3	3.5	4		
4. Assembled	4.4 Check joints for Diagonals and square	Deg	Deg	Deg	Deg	Deg	Deg	Deg	Deg	<2x2	4(2)
	4.5 Check joint gap 0.3mm	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	Deviant	<2x2	4(2)
5. Finished the joint	5.1 No holes visible	Bad	Fair	Fair	Fair	Fair	Fair	Good	Perfect	<2x3	4(2)
	5.2 Sand paper along the grains (smooth surface)	Bad	Fair	Fair	Fair	Fair	Fair	Good	Perfect	<2x2	4(2)
	5.3 Hand pass on surface to check for smoothness.	Bad	Fair	Fair	Fair	Fair	Fair	Good	Perfect	<2x1	4(2)
	5.4 Over all products smoothness.	Bad	Fair	Fair	Fair	Fair	Fair	Good	Perfect	<2x3	4(2)
Total Score		1	2	3	4	5					312

Assessment Environment

- ❖ Facilities are excellent for both assessor and candidates. North Dagon testing center is in easy tranquility location.
- ❖ Candidates can seat examination with freely and freshly.
- ❖ 9m² area per candidate for practical test work.
- ❖ Lighting get not only natural lighting but also electricity.
- ❖ Occupational Safety and Health (OSH) is also good. CVT Testing center area is wide and free from disturbance as noise, dust and etc.
- ❖ Get the fresh air, it sits next to the Aung Si Sein tea shop. Can get both Myanmar traditional food and Chinese food.

Practical Testing Layout Plan



Facilities



Assessor

- | | |
|----------------------|----------------|
| ❖ U Maung Maung Linn | Chief Assessor |
| ❖ U Than Htike Htay | Assessor |
| ❖ Daw Myat Myat Myo | Assessor |
| ❖ U Naing Linn | Assessor |
| ❖ U Zaw Myo Htut | Assessor |
- ❖ All assessors got many experiences from Cabinet Maker Level - 1 first track testing.
 - ❖ Such as procurement of materials, tools, how to make time management, social dealing, technical experience etc.....,

- ❖ Anyway, all assessors are cooperating, sharing the duty and all tasks successfully done.
- ❖ In the future , project like this will be better. All assessors eager to done easily.

Candidate recruitment/ Coordination with employer

- ❖ Cabinet Maker Sectorial Committee has held meeting since 24.11.2014 for collecting the candidates.
- ❖ Public and Private sector have mild interesting effort in this task.
- ❖ Good supported for GIZ for first track testing. But time is very limited and implementation is hasty.
- ❖ 23 Candidates are listed but 3 candidates absent, so 20 candidates only seated in assessment.
- ❖ All assessor suggested that **familiarization day needs at least 2 days for one candidates.**
- ❖ First track testing is very important and highly benefit for our country.

Finalization of Test Material

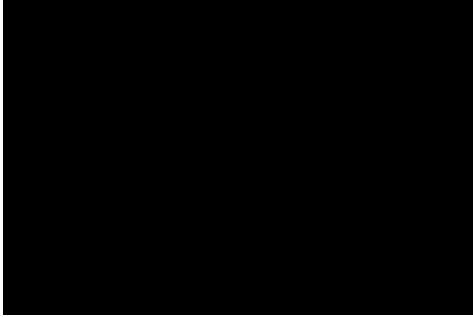
- ❖ Cabinet Maker Level – 1 need to translated in oral test question to English language.
- ❖ Expert group will do soon.
- ❖ Rubric Methods in practical test is refined and seems good enough for CM-1 job.

Suggestion of the Technical Point of View on Accreditation of the Assessment Center

- ❖ Need to implement second round assessment for CM-1 with greater number of candidates to be economical .
- ❖ Need awareness for all sectors to done the Fast Track Assessment procedure to get quick-win results.
- ❖ Tools, Equipment and Accessories used in Assessment Centre are sufficient to Competency Standard.
- ❖ Testing Area, building condition, electrical back-up system and Assessors are good enough to meet the Competency Standard.
- ❖ Any way, we all believe this First Track testing implementation is successfully done. It's record.

We did it!

**Here is Our Daily Activities Video Record
During Cabinet Maker Level(1)Testing Days**



Thank You

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH



swisscontact

**Ministry of Construction
Central Training Centre
(Thuwunna)**

**Assessment Centre
(Carpenter)**

Trial Test(28.10.2014)



**Refresh Training
(3/4.11.2014)**



**Familiarization
Day(5.11.2014)**



Actual Test (8.11.2014)



Actual Test (8.11.2014)



National Skill Assessment NSC Level-1 for Carpenter Lists of Candidates			
8.11.2014			
Sr.No	Name	Organization	N.R.C No
1	U Aung Moe	Original Group Co.,Ltd	12/YaPaTha(N)086677
2	U San Win	Original Group Co.,Ltd	13/TaKaNa(N)139917
3	U Win Hlaing Soe	Ah Yone Oo Construction	12/ThaGaKa(N)144432
4	U Zaw Min Lwin	Central Training Centre(Thuwunna)	14/PaThaNa(N)162194
5	U Aung Kyaw Oo	Ah Yone Oo Construction	14/YaKaNa(N)088908
6	U Zaw Win Phyto	Ah Yone Oo Construction	12/MaYaKa(N)135176
7	U Myo Min Htike	Central Training Centre(Thuwunna)	14/BaKaLa(N)230412
8	U Sai Min Naung	Ah Yone Oo Construction	14/YaKaNa(N)128888

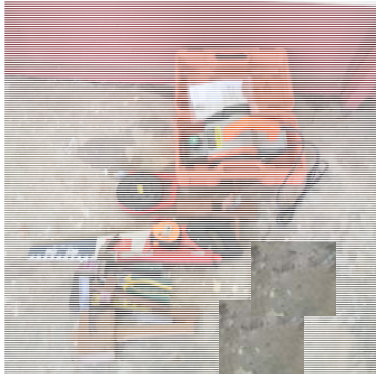
National Skill Assessment NSC Level-1 for Carpenter Lists of Candidates			
8.11.2014			
Sr.No	Name	Organization	N.R.C No
9	U Tun Lat	Mya Nandar Construction	12/DaGaTa(N)008587
10	U Kyaw Min Tun	Dana Sanyar Construction	12/LaPaTa(N)130636
11	U Naing Soe Win	Mya Nandar Construction	14/MaMaKa(N)206427
12	U Tun Lin Kyaw	Dana Sanyar Construction	-
13	U Aye Min Htike	Nile Industries Co.,Ltd	12/KaKhaKa(N)065562
14	U Maung Maung Aye	Mya Nandar Construction	N/OKA 074693
15	U Myint Khine	Mya Nandar Construction	14/MaMaKa(N)221729
16	U Nyi Nyi Lin Htet	Nile Industries Co.,Ltd	12/OaKaTa(N)173219

National Skill Assessment NSC Level-1 for Carpenter						
Assessment Final Report						
Date: 8/11/2014		Assessment Centre: MOC training centre,(THUWANNA)				
Total: 1 hour for practice						
Sr.no	Name	marks of Practical test (50)	marks of oral test (Practical) (10)	marks of oral test(30)	Total marks (100)	C or NC (Pass/Fail)(70)- or remarks
1.	U Aung Moe	47.74	10	29.00	86.74	C
2.	U San Win	52.07	10	29.33	91.4	C
3.	U Win Hlaing Soe	51.35	8	29.67	89.02	C
4.	U Zaw Min Lwin	53.94	10	30.00	93.94	C
5.	U Aung Kyaw Co	53.51	10	29.67	93.18	C
6.	U Zaw Win Phyo	45.79	10	29.67	85.46	C
7.	U Myo Min Hsike	49.47	10	28.67	88.14	C
8.	U Sai Min Naung	55.67	9	28.00	92.67	C
9.	U Tun Latt	45.00	10	30	85	C
10.	U Kyaw Min Tun	53.37	10	28	91.37	C
11.	U Nang Soe Win	50.34	10	29	89.34	C
12.	U Tun Lin Kyaw	47.60	10	26	83.6	C
13.	U Aye Min Hsike	51.35	10	30	91.35	C
14.	U Mg Mg Aye	45.29	10	30	85.29	C
15.	U Myint Khaling	48.17	10	27	85.17	C
16.	U Nyi Nyi Lin Hsat	45.00	9	30	84	C
(Approved by) Name: U Ko Kio Gyi Signature of Chief Assessor:		Total number of candidates passed on skill assessment:			16 candidates	

* 70 marks and above is competent



Activities	Components
Assessment instrument/ tools	<ul style="list-style-type: none"> • Time consumption <ul style="list-style-type: none"> - The time consumption was about 2 hours for Practical Test and about 2 hours for Oral Test. - The time consumption is sufficient about 4 hours for 16 candidates. • Methods <ul style="list-style-type: none"> - For Level 1, it is relevant to oral test with RPL system. But, the written system should be included in long-term training course in future. • Coverage of Competency Units <ul style="list-style-type: none"> - All assessment criteria are covered of Competency Units.



Activities	Components
Assessment Environment	<ul style="list-style-type: none"> • Facilities and infrastructure <ul style="list-style-type: none"> - Be sufficient - Some instruments are supported by GIZ • Layout/building <ul style="list-style-type: none"> - Be sufficient - Some instruments are supported by GIZ • Ventilation <ul style="list-style-type: none"> - Good • Lighting <ul style="list-style-type: none"> - Be sufficient • OSH requirement <ul style="list-style-type: none"> - Be sufficient - PPE are supported by GIZ and training centre arranged doctor and nurse for candidate's health. • House-keeping <ul style="list-style-type: none"> - Good • Environment <ul style="list-style-type: none"> - No disturbances at surrounding.



P.P.E



Test Building



Activities	Components
Assessor	<ul style="list-style-type: none"> • Self Evaluation <ul style="list-style-type: none"> - All assessors have work experiences more than 2 years and above and successfully finished the training courses concern with assessing opened by NSSA. • Issues <ul style="list-style-type: none"> - Among all 6 assessors, two assessors are Engineers, three assessors are graduated and one assessor is high school level. • Recommendations for further improvement <ul style="list-style-type: none"> - Assessors should be trained by attending more assessing courses in abroad and country to have more qualifications.

Assessor Group (Carpenter) Level-1

- | | | |
|-----------------------|-------|----------------|
| 1. U Ko Ko Gyi | M.E.S | Chief Assessor |
| 2. U Kyi Lwin | M.E.S | Assessor |
| 3. U Win Naing Tun | M.O.C | Assessor |
| 4. Daw Win Thida Aung | M.O.C | Assessor |
| 5. Daw Aye Myat Thu | M.O.C | Assessor |
| 6. U Thein Htay | M.O.C | Assessor |

Inspection Team



Inspection





Activities	Components
Candidate recruitment/ coordination with employer	<ul style="list-style-type: none"> • Information sharing <ul style="list-style-type: none"> - The employers included in sub-relevant Committee should share knowledge to the workers about NSSA and the usefulness of NSSA's Certificates. • Necessary support <ul style="list-style-type: none"> - GLZ supported transport charges to the Candidates for familiarization and Actual Days is effective. • Issues and constraints <ul style="list-style-type: none"> - The Candidates who are basic education middle level and have three years work experiences were chosen by employers . • Recommendations <ul style="list-style-type: none"> - The candidates are recommended by their employers.



Activities	Components
Finalization of test materials	<ul style="list-style-type: none"> • Translation <ul style="list-style-type: none"> - It is efficient for candidates. • Test item development <ul style="list-style-type: none"> - It is modernized.

Safety Equipment Lists	
Sr No	Particular
1	Helmet
2	Glass
3	Ear Mass
4	Ear Plug
5	Gloves
6	Mask
7	Safety Boot
8	Safety Shoe
9	Cover all
10	Safety Belt

Activities	Components
Suggestion of the technical point of view on Accreditation of the Assessment Centre	<ul style="list-style-type: none"> • Checklist <ul style="list-style-type: none"> - • Necessary preparation and pre-requisite <ul style="list-style-type: none"> - • stress points <ul style="list-style-type: none"> -Computer and printer facility with operator and assessment center is essential. -Test pieces(wood)should be dry and good quality.



Thank you

Feedback Workshop on Fast-Track Skills Testing (1st Round)

5th December 2014

*Presented by
Kyaw Myat Khaing
Chief Assessor
Electrician (Level-1)*

Assessors in Electrician Level-1

- U Kyaw Myat Khaing (Chief Assessor) - Head of VT/HoP (EL Profession)
(CVT Myanmar)
- U Myint Than (Assessor) - Training Officer (MOLES)
- Dr. Thin Zar Han (Assessor) - Head of Division (MOI)
- Daw Moe Moe Chit Kyi (Assessor) - Instructor Officer (MOI)
- Daw Ei Ei Win Thu (Assessor) - Instructor Officer (MOI)
- U Htet Aung Lin (Assessor) - Teacher (CVT Myanmar)

2

Time Schedule for Fast Track

No	Date	Time Schedule	Place
1	21.11.2014	Assessment Centre Inspection	STC (Yankin)
2	23.11.2014	Trial Test	STC (Yankin)
3	24.11.2014	Pre- training	CVT Workshop (North Dagon)
4	25.11.2014	Pre- training	CVT Workshop (North Dagon)
5	30.11.2014	Familiarization	STC (Yankin)
6	1.12.2014	Assessment Day-1	STC (Yankin)
7	2.12.2014	Assessment Day-2	STC (Yankin)
8	3.12.2014	Assessment Day-3	STC (Yankin)

3

Assessment Center (Electrician) Skill Training Center (Yankin)



4

Material for Testing Center



5

Candidates

➤ Apply Candidates	-	37
➤ Trained Candidates	-	37
➤ Selected Candidates	-	24
➤ Reserve Candidates	-	3
➤ Pass Candidates	-	24

6

Marking Scheme

1. Practical test

1.1 Safety	20 Marks
1.2 Commissioning	10 Marks
1.3 Wiring and Termination	10 marks
1.4 Function	20 Marks
1.5 Measurements	20 Marks
1.6 Installation of Equipments and Wire way	20 Marks

Total award for practical test will be 80% of actual award.

2. Written test (Objective question)

2.1 Safety	40 Marks
2.2 Electrical regulation	20 Marks
2.3 Electrical basic knowledge	40 marks

Total award for written test will be 20% of actual award.

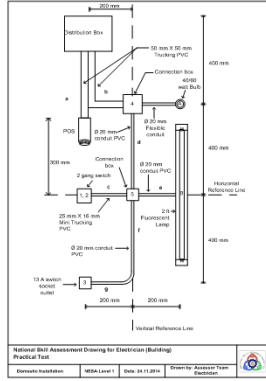
7

Marking Scheme

Pass mark for Practical Test	-	64 marks
Pass mark for Written Test	-	10 marks
Pass mark for Total	-	marks

8

Testing booth



Trial (Pilot) Test

Date : 23.11.2014 (1 day)
 Time : 9 a.m. to 5 p.m.
 Participants : 5 assessors and 2 candidates
 Place : at STC (Yankin)



Candidates for Electrician

No	Company / Department	Public / Private	No of candidates	Pass	Fail
1	Global Life Electrical Engineering Group	Private	2	2	-
2	REG Engineering Co., Ltd	Private	2	2	-
3	Total E&P Myanmar	Private	1	1	-
4	THITZA Electrical & Electronic Service	Private	2	2	-
5	Htoo Pyae Sone Construction Co.,Ltd	Private	1	1	-
6	IKON Trading Co.,Ltd	Private	1	1	-
7	Shine & Nyunt Engineering Services Co., Ltd	Private	1	1	-

Continue

No	Company / Department	Public / Private	No of candidates	Pass	Fail
8	TZM Electrical Engineering Group	Private	5	5	-
9	Arkar Electric	Private	1	1	-
10	New Light Electrical Power Group	Private	4	4	-
11	Fortune International Co.,Ltd	Private	1	1	-
12	Power System, Zeye & Associates Co.,Ltd	Private	2	2	-
13	Electrical Inspection Department	Public	1	1	-
Total			24	24	-

All candidates are male.

Pre-training at CVT Workshop



13

Assessment

Date : 1.12.2014 , 2.12.2014 and 3.12.12 (Monday, Tuesday & Wednesday) (3 days)
Time : 9 a.m. to 5 p.m.
Participants : 5 assessors and 24 candidates
Place : at Skill Training Center (Yankin)



14



15



16

Results

No	Name	Marks		
		Practical	Written	Total
1	Kyi Soe	78	19.5	97.5
2	Aye Chan	67.2	18	85.2
3	Aung Soe Moe	74.4	20	94.4
4	Tun Aye Kyaw	74.8	19.5	94.3
5	Soe Moe Naing	76	18.5	94.5
6	Phyo Htet Khaing	76.4	19.5	95.9
7	Myat Tun Aung	72	15.5	87.5
8	Soe Tun Naing	75.6	13.5	89.1
9	Ye Kyaw Moe	76.8	19.5	96.3
10	Kyaw Lin Aung	76	20	96
11	Kyaw Thet Han	69.2	18.5	87.7
12	Thein Zaw Moe	68.8	19	87.8

17

Continue

No	Name	Marks		
		Practical	Written	Total
13	Zayar Tun	79.2	19.5	98.7
14	Si Thu Aung	71.6	20	91.6
15	Kyaw Shwe Lin	75.6	20	95.6
16	Zaw Zaw Thein	72.8	20	92.8
17	Thet Khaing Win	72.4	14.5	86.9
18	Myo Min Aung	70.8	18.5	89.3
19	Saw Sar Htoo Lay	65.6	18.5	84.1
20	Michel	74.4	17.5	91.9
21	Pyae Phyo Aung	76	19	95
22	Than Zaw Moe	71.2	16.5	87.7
23	Htay Hlaing Win	69.4	20	89.4
24	Myo Myint Aung	74.8	19.5	94.3

18

Observers at Assessment Days



19

Observers at Assessment Days



Major Observation

- Ⓢ Require more appropriate assessors
- Ⓢ Require individual assessment centre
- Ⓢ Require management team & supporting staffs
- Ⓢ Time allocation is ok
- Ⓢ Need to refine CS
- Ⓢ Marking lines on the plywood
- Ⓢ Require wider working area and workbench
- Ⓢ Require more illumination for each booth

21

THANK YOU VERY MUCH!

22









Fast Track Skill Testing Skill Test for F & B Service (Waiting staff level-1)

By
 Kyaw Kyaw Sint (Team Leader)
 Food & Beverage Service (Waiting Staff) Sub Committee
 Hotel & Tourism Occupational Competency standard Committee

12/4/2014



NSSA and Hotel & Tourism Occupational Competency standard Committee organized the Food & Beverage Service (Waiting Staff) Sub Committee by Senior Official, ASEAN Tourism Master Assessors, National Tourism Assessors & Hotel Professionals.

3/5/2015



Meeting with various employers from Myanmar Hotel & Tourism Industry for sending recommended candidates for Food & Beverage Service (Waiting Staff Level I)

3/5/2015

Assessor Team

1. Kyaw Kyaw Sint (ASEAN Tourism Master Assessor)
Vice Chairman, Myanmar Tourism HRD Association
2. Kyaw Myo Aung, (ASEAN Tourism Master Assessor)
Kandawgyi Hotel & Tourism Training Centre
3. Yee Htun, Head of Hotel Professional
CVT, Myanmar
4. May Thazin (Principal)
TRC Hotel & Vocational Training School
5. Micky Aung Kyaw Myo
Myanmar Hotelier Professional Association



3/5/2015

Assessor Team

6. Thu Han Win, Principal
IHC Hotel School, Yangon

7. Saw Nay Tha Gay
IHC Hotel School, Yangon

8. Win Htet Aung, General Manager
Monsoon Restaurant & Bar

9. Ye Win

Myanmar Hotelier Professional Association

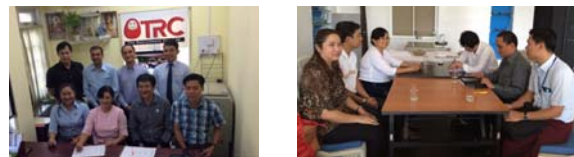


Participants are sent by various employers for Skill Test for F & B Service (Waiting staff level-1)

No.	Participated Hotels/ Rest:	Number of participants
1	Taw Win Garden Hotel (Local Own)	3
2	Summit Parkview Hotel (Int'l Chain)	2
3	Panorama Hotel (Local Own)	1
4	Summer Palace Hotel (Local Own)	2
5	Sedona Hotel (Int'l Chain)	4
6	Hotel Yankin (Local Own)	1
7	Central Hotel (Local Own)	10
8	City Golf Resort Hotel (Local Own)	1
9	Hotel 7 Mile (Local Own)	3
10	Park Royal Hotel (Int'l Chain)	1
11	Monsoon Restaurant (Local Own)	2
Total	11 (Local/ Int'l Hotel & Restaurants)	30

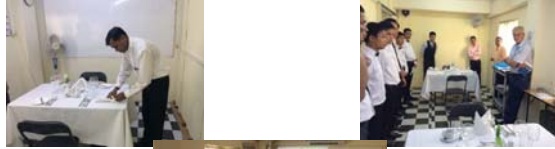
Trial, Refreshing Training, Pre Test and Assessment Schedule

Date	Activities	Venue	Participants
24-11-14	Refreshment Training for Theory	TRC	30 Candidates/ Assessors Team
	Refreshment Training for Theory	TRC	30 Candidates/ Assessors Team
25-11-14	Practical Test	TRC	15 Candidates/ Assessors Team
	Practical Test	TRC	15 Candidates/ Assessors Team
26-11-14	Practical Test	TRC	15 Candidates/ Assessors Team
	Practical Test	TRC	15 Candidates/ Assessors Team
27-11-14	Review by Assessors & Result out	TRC	Assessor Team
28-11-14	Registration	Monsoon	9 candidates/ 16 guests & Assessors Team
	Mis en place		
	Test Project with Lunch		
	Practical Test/Oral Test		
29-11-14	Registration	Monsoon	9 candidates/ 16 guests & Assessors Team
	Mis en place		
	Test Project with Lunch		
	Practical Test/Oral Test		



Inspection Team from Accreditation & Certification Committee observed at Assessment Centers of TRC & Monsoon Restaurant

3/5/2015



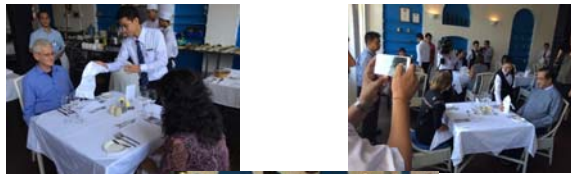
Refreshment Training & Role-play Skill Test for F & B Service (Waiting staff level-1) at TRC Hotel & Vocational Training School

3/5/2015



Candidates & Assessor Team before Skill Test for F & B Service (Waiting staff level-1) at TRC & Monsoon Restaurant

3/5/2015



Final Skill Test with real invited guests for F & B Service (Waiting staff level-1) at TRC & Monsoon Restaurant

3/5/2015



Recording all activities and oral questioning to cover all competencies for F & B Service (Waiting staff level-1) at TRC & Monsoon Restaurant

3/5/2015

**Skill Test for F & B Service (Waiting staff level-1)
Competent Result**

No.	Name	Total marks	C or NYC (Pass or Fail)	Remarks
1	Ms. Hnin Hey Mun	90.77	C	Taw Win Garden
2	Ms. Aye Thida Myint	90.77	C	Summit Parkview
3	Ms. Cho Thee Oo	90.77	C	Taw Win Garden
4	Mr. Aung Thu Hein	88.46	C	Sedona Hotel
5	Mr. Zin Min Htet	86.92	C	City Golf Resort
6	Mr. Myo Thura Aung	85.4	C	Taw Win Garden
7	Mr. Naing Lwin Tun	84.62	C	Park Royal
8	Mr. Nyi Nyi Lwin	83.08	C	Summit Parkview
9	Mr. Nyi Nyi Tun	83.08	C	Hotel 7 Mile

**Skill Test for F & B Service (Waiting staff level-1)
Competent Result**

No.	Name	Total marks	C or NYC (Pass or Fail)	Remarks
10	Mr. Maung Maung Thein	81.54	C	Sedona Hotel
11	Mr. Kyaw Mae Thu	80	C	Hotel 7 Mile
12	Mr. Aung Min Khine	78.46	C	Hotel 7 Mile
13	Mr. Mya Lin	77.7	C	Monsoon Rest:
14	Mr. Thu Yein Tun	77.69	C	Monsoon Rest:
15	Mr. Chan Myae Aung	76.92	C	Summer Palace
16	Mr. Aung Ko Oo	76.2	C	Panorama Hotel
17	Mr. Win Khaing	76.2	C	Central Hotel
18	Mr. Aung Khant Zaw	75.4	C	Central Hotel

Minimum passed mark 70% is to be competent and outstanding by score

**Skill Test for F & B Service (Waiting staff level-1)
Competent Result**

No.	Participated Hotels/ Rest:	Participated Candidates	Competent Candidates
1	Taw Win Garden Hotel (Local Own)	3	3 (2F/ 1M)
2	Summit Parkview Hotel (Int'l Chain)	2	2 (1F/1M)
3	Panorama Hotel (Local Own)	1	1 (M)
4	Summer Palace Hotel (Local Own)	2	1 (M)
5	Sedona Hotel (Int'l Chain)	4	2 (M)
6	Hotel Yankin (Local Own)	1	0
7	Central Hotel (Local Own)	10	2 (M)
8	City Golf Resort Hotel (Local Own)	1	1 (M)
9	Hotel 7 Mile (Local Own)	3	3 (M)
10	Park Royal Hotel (Int'l Chain)	1	1 (M)
11	Monsoon Restaurant (Local Own)	2	2 (M)
Total	11(Local/ Int'l Hotel & Rest:)	30	18 (3F/15 M)

Observation for Waiting Staff Testing

- Arrangement** (Need for People acknowledgment of Occupational Competencies, Employers' awareness, Certified Assessors, Fund)
- Cooperation** (Industry guests need to participate as observers, Public & Media involvement, Concerned Ministry & Private Sector are needed to demand and law enforcement for Certification before and after testing)
- General Comment** (Program Organizer, Certificated Holders and another professionals should continue for next level)



3/5/2015

Thanks for your kind regards.







FEEDBACK & CONSULTATION MEETING

FAST TRACK TEST **NSSA-GIZ**

Arc Welder Qualification Test for Level-1 (Semi-skill Welders)

KABAR Testing Center Presented by U Naing Thiha Soe
 (27th & 28th November, 2014) Chief Assessor (Welding)

Qualification Certificate System

Qualification	Job level	Skill, Knowledge and Ability
Certificate 1	1. Semi-skill worker	Understands safety requirements Has basic practical skills and operational knowledge in a defined range of tasks Can carry out routine tasks given clear direction Can receive and pass on information Can access and record information Take limited responsibility
Certificate 2	2. Skilled worker	Has practical skills and operational knowledge in a range of tasks Can carry out skilled tasks Take limited responsibility for output of self
Certificate 3	3. Advanced skilled worker	Has some theoretical knowledge Has a range of well developed skills Can apply solutions to routine problems Can interpret available information Can take responsibility for output of others
Certificate 4	4. Supervisor	Has a broad knowledge base, and can apply some theoretical concepts Can identify and apply skills and knowledge Can identify, analyze and evaluate information Understands and can take responsibility for quality, safety and environmental issues

2

National Skill Standard Authority
Welder Qualification Test with Qualified Ranges of Approval
Skill Level-1,2,3,4 Designation

Ref. Document: AWS D1.1/D1.1M:2016 Date: 18 February 2015

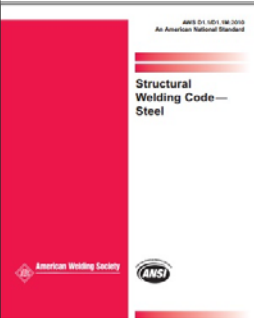
Test Condition				Qualified Ranges of Approval									
Type of Joint	Position	Material	Welding Process	Thickness	Level-1 (Plate T-Joint with Fillet Weld)		Level-2 (Plate Butt Joint with Butt Weld)		Level-3 (Pipe Butt Joint with Butt Weld)		Level-4 (Welding Supervisor)		
					Process	Position	Material	Welding Process	Plate Thickness	Pipe Diameter	Material	Welding Process	Plate/Pipe Thickness
Fillet	LF	Plate (C)	MMAW or GMAW or GTAW	12	LF	LF	Plate (C)	Pipe (C)	AC Test	3	Unlimited	Unlimited	
	LF	Plate (C)	MMAW or GMAW or GTAW	12	LF	LF	Plate (C)	Pipe (C)	AC Test	3	Unlimited	Unlimited	
	LF	Plate (C)	MMAW or GMAW or GTAW	12	LF	LF	Plate (C)	Pipe (C)	AC Test	3	Unlimited	Unlimited	
	LF	Plate (C)	MMAW or GMAW or GTAW	12	LF	LF	Plate (C)	Pipe (C)	AC Test	3	Unlimited	Unlimited	
Butt	1G	Plate (C)	MMAW or GMAW or GTAW	10 (T)	1G	1G	Plate (C)	Pipe (C)	AC Test	3	20 (2T)	> 600	
	1G	Plate (C)	MMAW or GMAW or GTAW	10 (T)	1G	1G	Plate (C)	Pipe (C)	AC Test	3	20 (2T)	> 600	
	1G (up)	Plate (C)	MMAW or GMAW or GTAW	10 (T)	1G	1G	Plate (C)	Pipe (C)	AC Test	3	20 (2T)	> 600	
	1G + 4G	Plate (C)	MMAW or GMAW or GTAW	10 (T)	1G	1G	Plate (C)	Pipe (C)	AC Test	3	20 (2T)	> 600	
Butt	1G (down)	Pipe (C)	One or more process	Unlimited	1G	1G	Plate (C)	Pipe (C)	AC Test	3	30	300	
	1G (down)	Pipe (C)	One or more process	Unlimited	1G	1G	Plate (C)	Pipe (C)	AC Test	3	20	150 or 100	
	1G (down)	Pipe (C)	One or more process	Unlimited	1G	1G	Plate (C)	Pipe (C)	AC Test	3	Unlimited	Unlimited	
	1G (down)	Pipe (C)	One or more process	Unlimited	1G	1G	Plate (C)	Pipe (C)	AC Test	3	Unlimited	Unlimited	


Theoretical Knowledge **Qualified for Welding Supervisor**
 Chapter 1: Welding Process and Equipment (JWES)
 Chapter 2: Materials and Their Behavior in Welding (JWES)
 Chapter 3: Construction and Design (JWES)
 Chapter 4: Inspection and Application Engineering (JWES)

Test Condition **Qualified Ranges of Approval**
 Welding Electrode: AWS A5.1, E-6013
 AWS A5.1, E-7018
 AWS A5.1, E-6013 or AWS E-7018
 AWS A5.1, E-6013 or AWS E-7018
 Test Location: Central District/1012 Zone (Group 1) All Group Members (See Detail in Table 3.1, Page 62)

Reference Standard

AWS D1.1 Structural Welding Code (Steel)



American Welding Society 

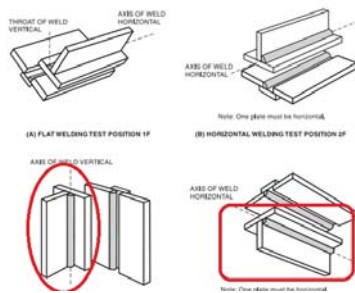
Welding Candidate Manual

Level-1 (3F vertical+ 4F overhead)

Table 4.10
Welder and Welding Operator Qualification—Production Welding Positions

Weld Type	Qualification Test Positions ^a	Production Plate Welding Qualified			Production Pipe Welding Qualified		
		Groove CJP	Groove PJP	Fillet	Butt-Groove		T-, Y-, K
					CJP	PJP	
P L A T E	Groove ^b	1G	F	F	F, H	F	F
		2G	F, H	F, H	F, H	F, H	F, H
		3G	F, H, V	F, H, V	F, H, V	F, H, V	F, H, V
		4G	F, OH	F, OH	F, H, OH	F, OH	F, OH
	3G + 4G	All	All	All	All	All	All
		(Note h)	(Note h)	(Note h)	(Note c)	(Note c)	(Note c)
	Fillet	1F			F		
		2F			F, H		
	3F + 4F	All	All	All	F, H, OH		
		(Note h)	(Note h)	(Note h)	(Note h)		
Plug				Qualifies Plug and Slot Welding			
T U	Groove ^c (Pipe or Box)	1G Rotated	F	F	F, H	F	F
		2G	F, H	F, H	F, H	F, H	F, H
		3G	F, V, OH	F, V, OH	F, V, OH	F, V, OH	F, V, OH
		4G	All	All	All	All	All
		2G + 3G	All	All	All	All	All
		(Note i)	(Note i)	(Note i)	(Note f)	(Note f)	(Note f)

Test Pieces and Positions



Working Procedure

- Trial Test (4-11-2014)
- WPS Qualification (14-11-2014)
- Refresher Training (24 & 25 -11-2014)
- Familiarization (26-11-2014)
- Actual Test (27 & 28 - 11-2014)

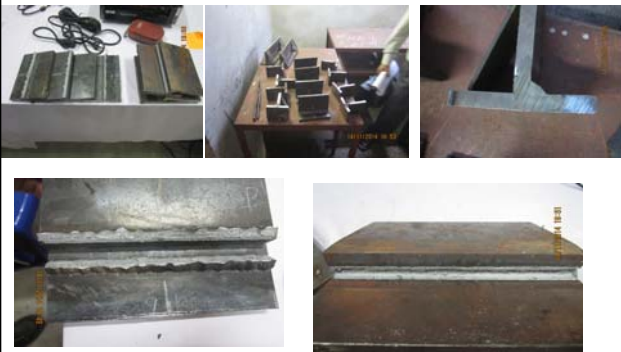
Trial Test (4-11-2014)



WPS Qualification for 3F & 4F (14-11-2014)



Destructive Tests



Collecting the Candidates

- Government Sectors
 - Myanma Railway
 - Dalla Dockyard
 - Dagon Seikkan Dockyard
 - Myanma Shipyards
- Private Sectors
 - Royal Marine
 - AGE Transformer
 - Min Dhamma
 - Dawn
 - UE
 - Triangle Link
 - Kabar

Meeting for Collection of Candidates



List of Welders for MMAW-Welder level-1 Test

Sr.no	Participated Company and organization lists	Number of participants
1	Royal Marine Engineering Co.,Ltd.	2
2	AGE Transformer	3
3	Myanmar Railway	1
4	Dalla Dockyard	2
5	Dagon Seikkan Dockyard	1
6	Soe Tun Engineering	2
7	Min Dhama Co., Ltd.	2
8	Myanma Shipyards	3
9	Dawn Co., Ltd.	4
10	UE Co.,Ltd	1
11	Triangle Links Engineering Co., Ltd.	2
12	Kabar Services Co., Ltd.	1
total	12	24

Refresher Training (24 & 25 -11-2014)



Refresher Training (24 & 25 -11-2014)



Familiarization (26-11-2014)



Actual Test (27 & 28 – 11-2014)



Actual Test (27 & 28 – 11-2014)



Way of Assessment

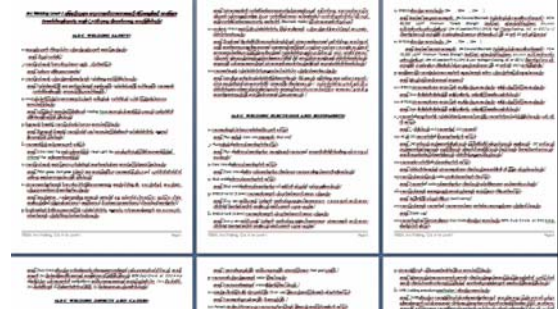
- > Orel Test Before Welding (20 marks,OT) (30 minutes)
- > Checklist During Welding (20 marks,PT) (35/40 minutes)
- > Visual Check After Welding (20 marks, VT)
- > Destructive Tests
 - Macro-etch Test (20 marks, MT)
 - Fracture Test (20 marks, FT)
- **Visual Check, Macro-etch & Fracture Tests are mandatory to pass in order to win the test**
- **Pass marks = VT(20)+MT(20)+FT(20)+ (20)OT&PT = 80**

Orel Test Questions (Main Subjects)

- Arc Welding Safety (11 Q&A)
 - Welding Electrode & Equipment (18 Q&A)
 - Welding Defects and Causes (12 Q&A)
 - Welding Inspection and Quality Control (12 Q&A)
 - Welding Process (5 Q&A)
- 20 Q&A → 30 minute → 20 marks

21

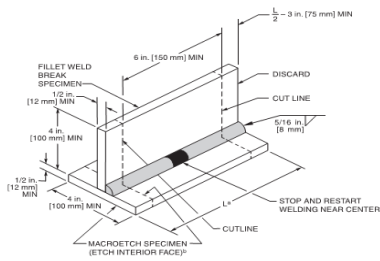
Questions and Answers Handouts



Fillet Weld Test (Level-1 Test-piece Sample)

SECTION 4. QUALIFICATION

AWS D1.1/D1.1M:2006



*L = 8 in. (200 mm) min welder, 15 in. (380 mm) min (welding operator).
 †Either end may be used for the required macroetch specimen. The other end may be discarded.

Figure 4.37—Fillet Weld Break and Macroetch Test Plate—Welder or Welding Operator Qualification—Option 1 (see 4.28 or 4.25)

Check List During Welding

2 Visual Examination Report (during welding) by Assessor				
	Checklist	C	N/C	Comments
2.1	Adherence to WPS (Amp, Voltage, Temp, Speed, Electrode, Sequence ...)			
2.2	No. of stop/restart in root run			
2.3	No. of stop/restart in capping run			
2.4	Grinding of minor imperfection at stop/restart in capping run			
2.5	Stop or not at stop/restart marking			
2.6	Adherence to welding position			
2.7	Removal of slag & spatter bet layers			
2.8	Removal of slag & spatter on test piece			
2.9	Grinding on the root & face side of weld			
2.10	Adherence to allowed time for the test			

10 Checkpoints



35/40 minutes



20 marks

Acceptance Criteria in Visual Check

4.8.1.2 Visual Inspection of Fillet Welds. Fillet welds shall meet the following requirements:

(1) Any crack shall be unacceptable, regardless of size.

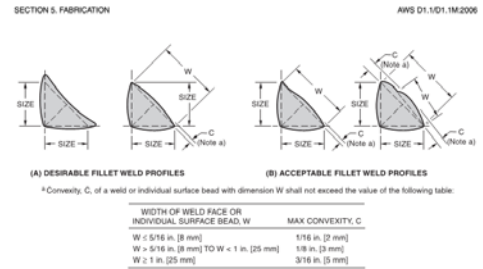
(2) All craters shall be filled to the full cross section of the weld.

(3) The fillet weld leg sizes shall not be less than the required leg sizes.

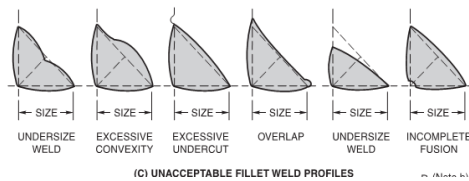
(4) The weld profile shall meet the requirements of Figure 5.4.

(5) Base metal undercut shall not exceed 1/32 in. [1 mm].

Acceptable Fillet Weld Profiles



Unacceptable Fillet Weld Profiles



Measuring Tools in Assessment Process

- Gap Gauge
- Protractor
- Voltage & Ampere Clamp Meter
- Thermometer
- Steel ruler
- Fillet Weld Gauge
- Undercut measuring gauge
- Throat Thickness measuring Gauge
- Weld Reinforcement measuring Gauge
- Plate Misalignment measuring Gauge

Measuring Equipments for Weldment



Acceptable Test-piece (VT)



Acceptable Test-piece (VT)



Unacceptable Test-piece (VT)



Unacceptable Test-piece (VT)



Unacceptable Test-piece (VT)

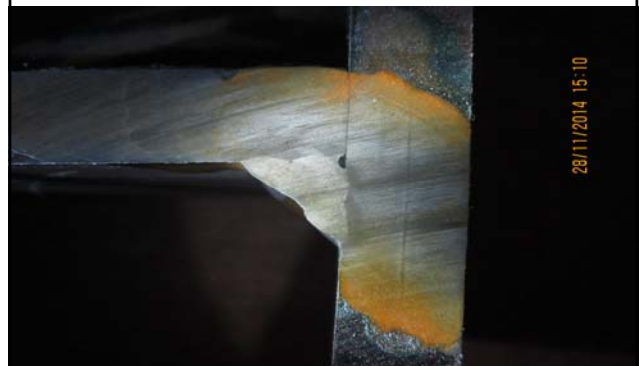


Acceptance Criteria in Macro-etch Test

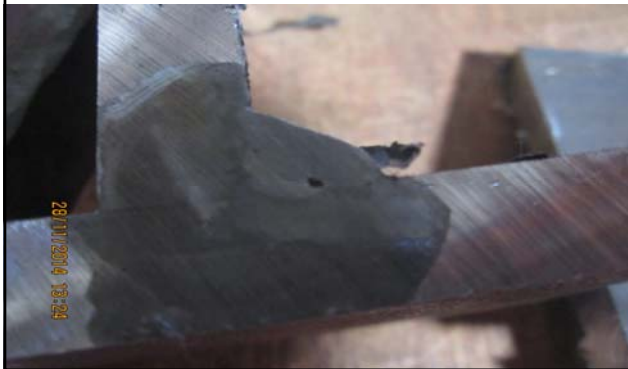
4.30.2.3 Macroetch Test Acceptance Criteria. For acceptable qualification, the test specimen, when inspected visually, shall conform to the following requirements:

- (1) Fillet welds shall have fusion to the root of the joint but not necessarily beyond.
- (2) Minimum leg size shall meet the specified fillet weld size.

Lack of fusion in MT



Lack of fusion in MT



Acceptance Criteria for Fracture Test

4.30.4.1 Acceptance Criteria for Fillet Weld Break Test. To pass the visual examination prior to the break test, the weld shall present a reasonably uniform appearance and shall be free of overlap, cracks, and undercut in excess of the requirements of 6.9. There shall be no porosity visible on the weld surface.

The broken specimen shall pass if:

- (1) The specimen bends flat upon itself, or
- (2) The fillet weld, if fractured, has a fracture surface showing complete fusion to the root of the joint with no inclusion or porosity larger than 3/32 in. [2.5 mm] in greatest dimension, and
- (3) The sum of the greatest dimensions of all inclusions and porosity shall not exceed 3/8 in. [10 mm] in the 6 in. [150 mm] long specimen.

Slag Inclusion > 2.5mm (FT)



Slag Inclusion (FT)



No defects inside (FT)



Assessment Environment

- Assessment Center "KABAR TRAINING CENTER"
- Location: Mingalardon Garden City



KABAR Testing Center (Ventilation, Lighting, ...)



KABAR Testing Center (Class Room)



ASSESSORS for Welding Test

- U Ohn Myint (Assessor Team Leader)
- U Naing Thiha Soe (Chief Assessor, IIW-IWE&IWIS)
- U Win Htun (Assessor, IIW-IWE&IWIS)
- U Aung Myo Thit (Assessor, IIW-IWE&IWIS)
- U Aung Thaw Khant (Assessor, Training of Trainer for Welding)
- U Aung Zaw Min (Assessor, Basic Knowledge Welding & Practice Course, AOTS)
- Daw Yu Yu Htun (Assessor, Training of Trainer for Welding)
- U Kyaw Htay Oo (Assessor, QA/QC-Welding Inspection)
- U Saw Thar Htay (Assessor, Welding In charge, MOR)
- U Than Hlaing (Assessor, Welding In charge, MOR)

Welding Assessor Group



Checking Test Piece Preparation



Marking the Test Pieces



NSSA Marking



Assessing the Practical Test



Assessing the Test Pieces (Visual Test)



Assessing By Visual Test



Assessing by Destructive Tests



Issue and Recommendation

- ❑ More assessors with relevant qualification
- ❑ Experienced assistant assessors
- ❑ Training for Assessors
- ❑ More Assessment Centers
- ❑ Separate classrooms for Oral tests
- ❑ Adequate duration of time for preparation of test pieces for testing center
- ❑ Necessary WPSs qualification in advance
- ❑ National Approved Testing Labs for Tensile, bend, CVN, Macro, Hardness etc

အထွေအထွေ အကြံပြုချက် များ

- ❑ သတ်မှတ်အရည်အချင်းပြည့်ဝသော Assessors များ ပိုမိုလိုအပ်
- ❑ လုပ်ငန်းခွင်အတွေ့အကြုံရှိသော လက်ထောက် Assessors များလိုအပ်
- ❑ Assessors များအတွက် လိုအပ်နေသော သင်တန်းများ စီစဉ်ပေးရန်
- ❑ Testing Center များတိုးချဲ့ဖွင့်လှစ်ရန်
- ❑ Testing Center တွင် Hall type class room လိုသကဲ့သို့ တစ်ဦးချင်းသီးသန့်လှူတွေ့ စစ်ဆေးနိုင်မည့်နေရာများ ဖန်တီးပေးရန်လို

အထွေအထွေ အကြံပြုချက် များ

- ❑ အားလုံးအတွက်လုံလောက်သော ကြိုတင်ပြင်ဆင်ချိန် ရရှိစေရန်
- ❑ အလုပ်အကိုင်အမျိုးမျိုးအတွက် လိုအပ်မည့် WPS & PQR များကြိုတင်ပြင်ဆင်ထားရန်
- ❑ Qualification Test များလုပ်ရာတွင် လိုအပ်သည့် NDT & DT (Tensile Test, Bend Test, Impact Load Test, Hardness Test, Fracture Test, Macro-etch Test အစရှိသည်တို့အတွက် နိုင်ငံအသိအမှတ်ပြု Material Testing Lab စတင်ထူထောင်ရန်
- ❑ အသုံးပြုမည့် Testing Equipments များအတွက် Calibration Test Record များ ပုံမှန်စစ်ဆေးထားရှိရန်

Candidates

- Certified Training Centers at various places
- Low trainee fees and/or post-paid system
- Training curriculums for current needs
- Job allocation after training
- Relevant Salaries after Training & Certification
- Web site based information system for qualified candidates and employer's demands

သင်တန်းသားများအတွက်အကြံပြုချက်များ

- ရန်ကုန်မန္တလေးမှ အစပြု၍ သင်တန်းကျောင်းများ ပိုမိုဖွင့်လှစ်ရန်
- လုပ်သားအများစု တတ်နိုင်သော သင်တန်းကြေးဖြစ်ရန် (သို့မဟုတ်) သင်တန်းတက်ရောက်အောင်မြင်ပြီး၍ လုပ်ငန်းခွင်ဝင်ရောက်ပြီးမှ သင်တန်းကြေးပေးနိုင်သောစနစ်ထူထောင်ရန်
- လက်ရှိပြင်ပလုပ်ငန်းခွင်လိုအပ်ချက်နှင့်ကိုက်ညီမည့် သင်ရိုးညွှန်းတမ်းများ အမြဲဖြစ်နေစေရန်
- သင်တန်းဆင်းပြီးသူအတွက် အလုပ်အကိုင်အခွင့်အလမ်းများ လွယ်လင့်တကူရရှိစေရန်

သင်တန်းသားများအတွက်အကြံပြုချက်များ

- သင်တန်းအောင်မြင်သဖြင့် ကျွမ်းကျင်မှုလက်မှတ် ရရှိပြီးဖြစ်သည့်အလျောက် ရရှိသောလက်မှတ်နှင့် ထိုက်သင့်သောဝင်ငွေ/အခွင့်အလမ်းရရှိရန်
- အလုပ်ရှင်များ၏ ကျွမ်းကျင်လုပ်သား လိုအပ်ချက်၊ သင်တန်းကျောင်းများမှ ကျွမ်းကျင်လုပ်သားမေးထုတ်ပေးနိုင်မှုအင်အား စသည်များကို အလွယ်တကူချိပ်ဆက်ပေးနိုင်မည့် Website Base စနစ်တစ်ခုထူထောင်ရန်
- ကျွမ်းကျင်မှုလက်မှတ်ရှိမှ လုပ်ငန်းခွင်ဝင်နိုင်သည့် စနစ်မျိုး ကျင့်သုံးရန်

Finalization of Test Materials

- Orel test record
- Test Plates and Welding Electrodes
- Checklist during welding
- Visual check record
- Destructive test records for Macroetch Test
- Destructive test records for Fracture Test
- Final report for Result

Accreditation of Assessment Center

- Should possess Testing Lab with NDT facilities
- NDT Level-2&3 Certified Personnel for RT, UT, PT, MT
- National Approved Calibration Test Record for NDT equipments and Welding Power sources

**Thank you very much
for your attention.**