

DACUM Panel

1. Mr. Keshab Rahbahak, Aluminum Fabricator, ANS Aluminum Workshop, Pepsicola, Kathmandu
2. Mr. Ramesh Tamakhu, Sr. Aluminum Fabricator, New Gen Aluminum, Dallu, Kathmandu
3. Mr. Hari Bhakta Shrestha, Sr. Aluminum Fabricator, Aluminum Architect, Baneshwor, Kathmandu
4. Mr. Kanchha Shrestha, Sr. Aluminum Fabricator, Siddhi Binayak Aluminum, Nayathimi, Bhaktapur
5. Mr. Ram Kaji Prajapati, Aluminum Fabricator, Siddhi Binayak Aluminum, Nayathimi, Bhaktapur
6. Mr. Gyan Sundar Shrestha, Sr. Aluminum Fabricator, Jyoti Aluminum Center, Thimi, Bhaktapur
7. Mr. Bhakta Krishna Pate Shrestha, Aluminum Fabricator, Jyoti Aluminum Center, Thimi, Bhaktapur
8. Mr. Panchha Krishna Shrestha, Aluminum Fabricator, Jyoti Aluminum Center, Thimi, Bhaktapur

DACUM Facilitator/Co-facilitator

- Mr. Tulsi K.C., Sr. Skill Testing Officer, NSTB
Mr. Ishwor Chandra Ghimire, Skill Testing Officer, NSTB

Verification Panel

1. Mr. Rajendra Shrestha, Sr. instructor, BSET, Balaju, Kathmandu
2. Mr. Rajan Basnet, Workshop Incharge, UCEP, Kathmandu
3. Mr. Bhakta Man Nakarmi, Instructor, IOE, Pulchowk, Lalitpur
4. Mr. Hari Bhakta Shrestha, Sr. Aluminum Fabricator, Aluminum Architect, Baneshwor, Kathmandu
5. Mr. Ramesh Tamakhu, Sr. Aluminum Fabricator, New Gen Aluminum, Dallu, Kathmandu
6. Mr. Dinesh Prajapati, Instructor, Skill Nepal, Lalitpur
7. Mr. Hom Prasad Dangi, Aluminum Fabricator, A One Aluminum Fabricator Pvt. Ltd., Baneshwor
8. Mr. Kanchha Shrestha, Sr. Aluminum Fabricator, Siddhi Binayak Aluminum, Nayathimi, Bhaktapur

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Mr. Ishwor Chandra Ghimire, Skill Testing Officer, NSTB

Technical Sub-Committee

1. Prof. Rabindra Nath Bhattacharya, Co-ordinator, Mechanical Tech. Sub Committee
2. Dr. Kul Bahadur Basnet, Member, Director, NSTB, Bhaktapur
3. Mr. Raj Kumsr Shrestha, Member, United Engineering Works, Kupandol, Lalitpur
4. Mr. Binay Manandhar, Member, Thapathali Campus, Kathmandu
5. Mr. Hari Bhakta Shrestha, Sr. Aluminum Fabricator, Aluminum Architect, Baneshwor, Kathmandu
6. Mr. Ramesh Tamakhu, Sr. Aluminum Fabricator, New Gen Aluminum, Dallu, Kathmandu
7. Mr. Tulsi K.C., Member, Sr. Skill Testing Officer, NSTB, Bhaktapur
8. Mr. Ishwor Chandra Ghimire, Member, Skill Testing Officer, NSTB, Bhaktapur
9. Mr. Suresh Bhaila, Member Secretary, Sr. Skill Testing Officer, NSTB

Occupational Profile



Aluminum Fabricator, L-2

(DACUM Workshop on 13 & 14 January, 2013)

(Customized DACUM on 15 January, 2013)

(Technical Sub Committee Meeting on 20 February, 2013)



Council For Technical Education and Vocational Training

NATIONAL SKILL TESTING BOARD

Madyapur Thimi 17, Sanothimi, Bhaktapur

Nepal

(NSTB approval date)

DUTIES and TASKS

A. कार्यशालाको योजना तयारी गर्ने । (Perform Workshop Planning)

A1. कार्यक्षेत्र मिलाउने । (Arrange Workplace)			A2. हार्डवेयर तथा कच्चा सामग्रीहरू संकलन गर्ने । (Collect raw materials and hardware)			A3. औजार तथा उपकरण संकलन गर्ने । (Collect tools and equipment)			A4. मेसिन मिलाउने । (Set machine)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	3	2	3	3	2	2	3	2	1
A5. कार्य टेबल मिलाउने । (Set working table)			A6. सुरक्षाका उपकरणहरू संकलन गर्ने । (Collect safety equipment)								
Task rating			Task rating								
Importance	Difficulty	Importance	Importance	Difficulty	Frequency						
3	2	1	3	2	2						

B. स्केच तयार गर्ने । (Perform Sketching)

B1. साइटमा नाप लिने । (Take measurement at site)			B2. स्लाइडिङ्ग ढोका तथा भ्यालको स्केच तयार गर्ने । (Sketch sliding door/window)			B3. क्यासमेन्ट ढोका तथा भ्यालको स्केच तयार गर्ने । (Sketch Casement door/window)			B4. फिक्स पार्टसनको स्केच तयार गर्ने । (Sketch fix partition)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	3	3	2	3	3	2	3	3	2	3
B5. स्ट्रक्चरल ग्लेजिङ्गको स्केच तयार गर्ने । (Sketch structural glazing)			B6. स्लाइलाईटको स्केच तयार गर्ने । (Sketch skylight)								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	3	3	3	3	1						

C. बेन्च वर्कको काम गर्ने । (Perform Bench work)

C1. कटिङ्ग लिष्ट तयार गर्ने । (Prepare cutting list)			C2. मार्किङ्ग गर्ने । (Perform marking)			C3. सिधा कटिङ्ग गर्ने । (Perform Straight cutting)			C4. एंगल कटिङ्ग गर्ने । (Perform angle cutting)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	3	3	3	3	3	2	3
C5. पन्चिङ्ग गर्ने । (Perform punching)			C6. मिलिङ्ग गर्ने । (Perform milling)			C7. राउटिङ्ग गर्ने । (Perform roughing)			C8. कटिङ्ग औजार ग्राण्डीङ्ग गर्ने । (Perform cutting tools grinding)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	2	3	3	3	3	2	1	3	2	3
C9. ड्रिलिङ्ग गर्ने । (Perform drilling)			C10. फाइलिङ्ग गर्ने । (Perform filing)			C11. रिभेटीङ्ग गर्ने । (Perform reveting)			C12. स्क्रुडिङ्ग गर्ने । (Perform screwing)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	1	2	2	2	2	3	3	3

DUTIES and TASKS

D. भ्याल तयार गर्ने । (Prepare Windows)

D1. दुई खापा भएको स्लाइडिङ्ग भ्याल बनाउने । (Make two panel sliding windows)			D2. तिन बराबर खापा भएको स्लाइडिङ्ग भ्याल बनाउने । (Make three equal panel sliding windows)			D3. तिन खापा (२५/५०/२५) प्रतिशत भएको स्लाइडिङ्ग भ्याल बनाउने । (Make three panel 25/50/25 sliding windows)			D4. चारै बराबर खापा भएको स्लाइडिङ्ग भ्याल बनाउने । (Make four panel sliding windows)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	3	3	3	3	3	3	3
D5. टप फिक्स सहितको स्लाइडिङ्ग भ्याल बनाउने । (Make sliding windows with top fix)			D6. एक खापा भएको क्यासमेन्ट भ्याल बनाउने । (Make single panel casement windows)			D7. दुई खापा भएको क्यासमेन्ट भ्याल बनाउने । (Make double panel casement windows)			D8. फिक्स भएको क्यासमेन्ट भ्याल बनाउने । (Make fix casement windows)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	3	3	3	3	3	3	3
D9. लुभर्स भ्याल बनाउने । (Make louver windows)			D10. जाली खापा बनाउने । (Make fly mesh)								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	3	3	3	3	3						

E. ढोका तयार गर्ने । (Prepare Door)

E1. क्यासमेन्ट/ फ्लस ढोका बनाउने । (Make casement/flush door)			E2. स्वीङ्ग ढोका बनाउने । (Make swing door)			E3. ह्याङ्गिङ्ग स्लाइडिङ्ग ढोका बनाउने । (Make hanging sliding door)			E4. बटम स्लाइडिङ्ग ढोका बनाउने । (Make bottom sliding door)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	3	3	3	3	3	3	3
E5. ग्लास ढोका बनाउने । (Make glass door)			E6. फोल्डिङ्ग ढोका बनाउने । (Make folding door)								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	3	3	3	3	3						

F. पार्टिसन गर्ने । (Fix Partition)

F1. फुल पार्टिसन गर्ने । (Make full partition)			F2. ढोका सहितको पार्टिसन गर्ने । (Make partition with door)			F3. हाफ पार्टिसन गर्ने । (Make half partition)			F4. राउण्ड पार्टिसन गर्ने । (Make round partition)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	3	3	3	2	3	2	3	3	3	1
F5. सावर क्याबिन तयार गर्ने । (Make shower cabin)											
Task rating											
Importance	Difficulty	Frequency									
3	3	1									

G. ग्लेजिङ्ग गर्ने । (Make glazing)

G1. स्ट्रक्चरल ग्लेजिङ्ग गर्ने । (Make structural glazing)			G2. खोल्ने भ्याल सहितको स्ट्रक्चरल ग्लेजिङ्ग बनाउने । (Make structural glazing with open able windows)			G3. कर्टीन वाल ग्लेजिङ्ग गर्ने । (Make curtain wall partition)			G4. साधारण स्काइलाईट बनाउने । (Make simple skylight)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	3	3	3	3	3	3	3
G5. छाना बनाउने । (Make roof)											
Task rating											
Importance	Difficulty	Frequency									
3	3	3									

DUTIES and TASKS

H. भण्डारण गर्ने । (Perform Storing)

H1. कच्चा सामग्री भण्डारण गर्ने । (Store raw materials)			F2. औजार तथा उपकरण भण्डारण गर्ने । (Store tools and equipment)			F3. हार्डवेयर भण्डारण गर्ने । । (Store hardware)			F4. उपयोगी कट पीस भण्डारण गर्ने । । (Store cut piece)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	2	3	3	2	3	3	2	3
F5. उत्पादित सामग्री भण्डारण गर्ने । (Store final product)			F5. स्क्राप भण्डारण गर्ने । (Store scrap)								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	2	3	2	2	3						

I. साइट फिटिङ गर्ने । (Perform Installation site)

I1. फ्रेम जोडने । (Assemble frame)			I2. फ्रेम फिटिङ गर्ने । (Fit/install frame/panel)			I3. ग्लास बोर्ड फिटिङ गर्ने । (Perform glass/board fitting)			I4. क्लिपिङ गर्ने । (Perform clipping)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	3	3	3	3	3	3	3	3	2	3
I5. ग्यासकेट लगाउने । (Insert gasket)			I5. सिलिकन फिलिङ गर्ने । (Perform silicon filling)			I5. सफा गर्ने । (Perform cleaning)					
Task rating			Task rating			Task rating					
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency			
3	3	3	3	3	3	3	2	3			

J. Perform Communication

J1. कामदातासंग संचार गर्ने । (Communicate with owner)			J2. ग्राहकसंग संचार गर्ने । (Communicate with customer)			J3. हेड मिस्त्रीसंग संचार गर्ने । (Communicate with head worker)			J4. सहकर्मीसंग संचार गर्ने । (Communicate with colleague)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	3	2	1	3	1	3	3	1	3
J5. इलेक्ट्रीसियनसंग संचार गर्ने । (Communicate with electrician)			J6. प्लम्बरसंग संचार गर्ने । (Communicate with plumber)			J7. सम्बन्धित कार्यालयसंग संचार गर्ने । (Communicate with professional office/ stakeholder)					
Task rating			Task rating			Task rating					
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency			
3	1	1	3	2	3	3	2	3			

K. Develop Professionalism

K1. सम्बन्धित कार्यशालामा भाग लिने । (Participate in workshop/seminar)			K2. तालिम लिने । (Attain in training)			K3. साइट अवलोकन गर्ने । (Observe new sample)			K4. विज्ञसंग सिक्ने । (Learn with expert)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	3	3	2	3	3	2	3	2	1
K5. सम्बन्धीत किताब गर्ने । (Read related books/newspapers)											
Task rating											
Importance	Difficulty	Frequency									
2	2	3									

Note: Duty J and K are not for testing purpose.

Rating options:

1= Low

2= Medium

3= High

Additional Information for Job Title

<p>Worker traits</p> <ul style="list-style-type: none"> • Work concentration • Self Interest • Punctual • Laborious • Friendly • Healthy • Co-operative • Disciplined • Energetic • Polite • Patience • Honest • Reliable 	<p>Entry Requirements</p> <ul style="list-style-type: none"> • Literate with 1 year (600+800 hrs OJT) Training <p style="text-align: center;">Or</p> <ul style="list-style-type: none"> • As per NSTB rules 	<p>Career Path</p> <p>Aluminum Fabricator, L- 3</p>
<p style="text-align: center;"><u>Related Technical Knowledge</u></p> <p>Knowledge on:</p> <ul style="list-style-type: none"> • Introduction of aluminum fabricator and its scope. • Measurement, different tools, machinery and theirs uses. • Different angles/shapes and sizes. • Understanding of different design, drawing and sketches. • Properties of aluminum, different series and their selection. • Safety precaution. • Different types of aluminum products and theirs uses. • Different accessories (hardware) of aluminum products. • Different types of materials uses in aluminum fabrications. • Glass / board cutting. • Proper leveling adjustment. • Estimating and costing • Working arrangement. • Working Plan. • Simple maintenance works. • Safe transportation of aluminum and their products. • Storing. • Marketing. • Basic Mathematical calculation. 		<p>Tools/Equipment</p> <ul style="list-style-type: none"> • Measuring Tape/steel ruler • Calculator • Try square • Right angle • Hacksaw • File (round and flat) • Screw driver (minus and plus) • Rivet gun • Pliers • Hand drill, Hammer drill, and table/ bench drill machine • Punching machine • Jig saw • Aluminum cutting machine • Vice • Bevel protactor • Water level • Silicon gun • Glass cutter • Sprit level • Scissor/knife • Oil can • Glass holder • Gasket fixing roller • Plum bob • Hammer • Spanners • Chisel • Tool kit box • Brush • Drill bits • Router Machine • Allen key • Grinder • C clamp • Electric wire with sockets • Compressor with Pneumatic drill. • Safety equipments (Gloves, Goggles, Ear muff, Safety belt, Apron, Mask) • Marble cutter