National Occupational Skill Standard (NOSS)

Occupational Title : River Raft Guide

Level :1

Sector : Hospitality

Sub - Sector : Outdoor Recreation

NOSS ID/NSCO ID :

ISCO NO



Council for Technical Education and Vocational Training

NATIONAL SKILL TESTING BOARD

Madhyapur Thimi-17, Sanothimi, Bhaktapur, Nepal

Developed: 27-02-2022 (15-11-2078)



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2.	Mr. Santosh Basnet	Member	Sub Inspector of Police, Armed Police Force, Sunsari
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5.	Mr. Mani Prasad Gurung	Member	Canyoning Adventure, Kathmandu
6.	Mr. Mohan Singh Limbu	Member	Green Horizon Multipurpose Pvt. Ltd., Udayapur
7.	Mr. Gobinda Prasad Adhikari	Member	Paddle Nepal, Lakeside, Pokhara
8.	Mr. Prakash Gurung	Member	SWISSA Trekking Expedition Pvt. Ltd. , Thamel Kathmandu
9.	Mr. Jeevan Silwal	Member	Holiday Adventure, Kathmandu
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DACUM Coordinator / Facilitator:

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DACUM Workshop on 22 and 23 Chaitra 2077





The National Occupational Skill Standard Developed by:

No	Name	Designation	Organization
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NOSS ID: #



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1	Occupational Title: River Raft Guide Level: 1
2	Job Description: River Raft Guide, L-1 prepares for rafting trip, conducts rafting and performs basic rescue operation.
3	UNITS OF COMPETENCY:
	1. Prepare for rafting trip
	2. Conduct rafting
	3. Perform basic rescue operation
	4. Perform communication
	5. Develop professionalism
	*Note: Units 4 and 5 are not for testing purpose.
4	Qualifying Notes/Prerequisites:
	Physical Requirements: Sound health
	Entry Requirements: As per NSTB rules
	Additional Information:
	Assessment Types: Performance test only
	Assessment Duration: 4 to 5 hours (Full Competency) Recommended Crown Sizes 6 to 8 condidates.
	Recommended Group Size: 6 to 8 candidates





5	Unit No:1 Unit Title: Prepare for rafting trip		Unit code:			
	Elements of competency	Performance standards				
		1.1.1 Safety and se	viceability of <i>rafting gears</i> checked as per safety checklist and packed.			
	1.1 Prepare rafting equipment	1.1.2 Rescue kit and	d <i>first aid kit</i> checked and packed as per trip requirement.			
		1.1.3 Food and uter	nsils packed as per requirement of trip.			
		1.2.1 Transportatio	n providers informed for pickup as per agreement.			
	1.2 Coordinate with clients	1.2.2 Clients receive	ed and verified as per <i>pickup schedule</i> .			
		1.2.3 Clients briefe	d regarding trip itinerary.			
6	 Task Performance Requirements (Tools, Equipment and Materials): Raft, rafting gear, rope, Oar, Oar frame, paddle, paddle top, pump, whistle, dry box, dry bag, river knife, mallet, hammer, screw driver, Allen key, sand stick, rope, cloths, duct tape, D-ring, O-ring, Oar locks, carabiners, rubber adhesive, sand paper, sewing kit, scissors, chain saw, tubular webbing, messenger line, torch, first aid kit and personal protective equipment (PPE). 					
7	Safety and Hygiene (Occupational Health and Safety):					
	Use personal protective equipment.					
	Safe handling of materials, tools and equipment	ment.				
	 Hazards involved in lifting tools, equipment 	and materials.				
	Prevent from river hazard and lightning haz	ard hazards.				
	Dispose waste properly.					





Required Knowledge					
8	Technical Knowledge	Applied Calculation	Graphical Information		
	Rafting tools and equipment:Types		 Read and interpret manufacturer's instruction 		
	UsesSafe handling		Read and interpret river flow diagram		
	 Rafting fundamentals 				
	 Introduction and types of crafts 				
	• Raft				
	 Introduction 				
	 Types of rafts 				
	 Parts and pieces 				
	 Raft preparation 				
	 Proper inflation of raft 				
	• River				
	 Introduction 				
	o Types				
	o Grading				
	 River hydrology 				
	o River map				
	River features		- Control		



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• Knot	
 Types of knots 	
 Importance and use of knot 	
 Static and dynamic rope 	
Importance of rescue and first aid	
Communication and briefing technique	
Waste management	
Daily log	
Occupational health and safety rules and regulations	





9	Assessment of Competency								
	Unit: 1								
	Unit Title: Prepare for rafting trip								
			Candidate Details	Assessors Detail					
	Candidate's Name:			Assessors'	Name		ID/License No:		
	Registration Number:			1.					
	Symbol No:		2.						
	Test Centre: Test Date: 3.								
Ele	ment of competency		Performance Standards	Standard Standard Evidence Met Not Met Type		Comments			
	Prepare rafting equipment	1.1.1	Safety and serviceability of <i>rafting gears</i> checked as per						
			safety checklist and packed.						
1.1		1.1.2	Rescue kit and first aid kit checked and packed as per trip						
			requirement.						
		1.1.3	Food and utensils packed as per requirement of trip.						
1.2		1.2.1	Transportation providers informed/reminded for pickup as						
	Coordinate with		per agreement.						
	clients	1.2.2	Clients received and verified as per <i>pickup schedule</i> .						
		1.2.3	Clients briefed regarding trip itinerary.						

WT- Written Test

OQ- Oral Question

PT- Practical Test

DO – Direct Observation

SR- Supervisor's report

SN–Simulation

RP- Role Play

PG –Photographs

VD- Video

CT – Certificates

TS – Testimonials (Reward)

PP – Product Produced

CS - Case Study

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Range Statement

Variable	Range
Rafting gears	May include but not limited to: Raft Personal Flotation Devices (PFDs) River helmet Paddles Throw bag Life line Foot pump Hand pump Oar frame Oars Paddle top Kayak
Rescue kit	 Rope May include but not limited to: Throw bag Flip line Pulleys Locking carabiner Prusik cord River knife



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	Whistle
	Webbing
	Messenger line
	Folding saw
First aid kit	May include but are not limited to:
	Bandage
	Gauze pads
	• Antiseptic
	Adhesive tape
	• Cotton
	• Thermometer
	Anaesthetic spray/lotion
	Medicine
	• Gloves
	Betadine
	Bandaid
	CPR kit
	Safety pins
	• Scissors
	• Tweezers
Pickup schedule	May include but are not limited to:
	• Location
	Pickup time
	Number of clients





5	Unit No:2 Unit Title: Conduct rafting			Unit code:	
	Elements of competency			Performance standards	
		2.1.1	Personal prot	ective equipment (PPE) used in accordance with river condition.	
		2.1.2	Clients welcor	ned and introduced with rafting crew.	
		2.1.3	Clients' perso	nal belongings collected and stored at designated place.	
		2.1.4	Safety briefing	g conducted for clients.	
	2.1 Prepare for rafting activity	2.1.5	Rafting equip	ment and gear prepared for rafting as per rafting standard.	
		2.1.6	Rafting gear d	istributed to clients as per fitting and checked clients' clothing.	
		2.1.7	Safety and ser	viceability checked on raft as per safety checklist.	
		2.1.8	Lunch, lunch	pot and take out point fixed in coordination with trip leader.	
		2.1.9	Medical cond	tions of clients' rechecked.	
		2.2.1	Launch site se	lected as per river condition.	
		2.2.2	Clients boarde	ed in seating positions as per their paddling, swimming and physical	
			abilities.		
	2.2 Perform boarding	2.2.3	Clients' paddli	ng gear crosschecked to ensure comfort and safety.	
		2.2.4	Clients inform	ed about <i>paddling commands</i> to be used.	
		2.2.5	Correct paddl	ng stroke demonstrated and clients engaged in practice.	
		2.2.6	Raft launched	using paddling commands as per river conditions and clients' abilities.	
		2.3.1	Raft maneuve	red using appropriate paddling commands after trip leader's signal.	
	2.3 Perform raft guiding	2.3.2	River signals a	nd commands used to communicate between clients and other rafts.	
\wedge		2.3.3	Clients engage	ed, entertained and guided throughout the trip with safety and comfort.	



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		2.3.4 Commentary provided on river environment and local culture.				
		2.3.5 Raft stopped in the eddies and briefed.				
		2.3.6 Clients informed about rafting takeout.				
		2.3.7 Raft landed at takeout point.				
		2.4.1 Clients briefed on finishing of the trip and greetings exchanged.				
		2.4.2 Clients rafting equipment collected, inspected and recorded.				
	2.4 Perform post rafting activity	2.4.3 Rafting equipment packed as per standard procedure.				
		2.4.4 Personal belongings handed over to clients.				
		2.4.5 Arrangement made for clients' departure.				
		2.5.1 Site rechecked and cleared at put-in point.				
	2.5 Perform site clearance	2.5.2 Site rechecked and cleared at lunch point.				
		2.5.3 Site rechecked and cleared at takeout point.				
6	Task Performance Requirements (Tools, Equipme	ent and Materials):				
	• Raft, wet suit, dry suit, neoprene suit, rope, Oar, Oar frame, Oar locks, O-ring, paddle, paddle top, pump, whistle, dry box, dry bag, throw bag river knife, mallet, hammer, screw driver, Allen key, sand bar, cloths, duct tape, D-ring, carabiners, rubber adhesive, sand paper, sewing ki scissors, chain saw, tubular webbing, gloves, messenger line, torch, rescue kit, first aid kit and personal protective equipment (PPE).					
7	Safety and Hygiene (Occupational Health and Sa	fety):				
	 Use personal protective equipment. 					
	and the control of th					





Hazards involved in lifting tools, equipment and materials.

Safe handling of materials, tools and equipment.

•	Prevent from r	iver hazard	and lightning	hazard hazards
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• Dispose waste properly.



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	Required Knowledge							
8		Technical Knowledge		Applied	Calculation	Gra	phical Informatio	n
	Rafting to	ols and equipment:				• Read	d and interpret riv	ver flow
	о Ту	pes				diag	ram	
	o Us	es						
	o Sat	fe handling						
	• Raft							
	o Int	roduction						
	о Ту	pes of rafts						
	o Pa	rts and pieces						
	o Ra	ft preparation						
	o Pro	oper inflate						
	 Paddling s 	trokes						
	o Int	roduction						
	о Ту	pes						
	o Us	e						
	Strokes ar	nd maneuvers						
	o Fo	rward sweep						
	o J-s	trokes						
	o Pra	ау						
_	о Ва	ck sweep						
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1				T				
	• River l	hand and paddle signal						
	0	Go						
	0	Stop						
	0	Eddy out						
	0	Go right						
	0	Go left						
	0	Ok						
	0	Emergency signal						
	• Raftin	g technique						
	• Comm	nunication and briefing technique						
	• River							
	0	Introduction						
	0	Types						
	0	Grading						
	0	River hydrology						
	0	River features						
	0	River map						
	• River l	hazards						
	0	Hydraulic hole						
	0	Strainers						
	0	Waves						
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o Eddies	
Undercut rock	
o Sieve	
o Low head dam	
Waste management	
Record keeping and documentation	
Occupational health and safety rules and regulations	





9	Assessment of Competency								
	Unit: 2								
	Unit Title: Conduct raf	ting							
			Candidate Details		As	ssessors De	tail		
	Candidate's Name:			Assessors'	Name		ID/License No:		
	Registration Number:			1.					
	Symbol No:			2.					
	Test Centre:		Test Date:	3.					
Ele	Element of competency		Performance Standards	Standard Met	Standard Not Met	Evidence Type	Comments		
		2.1.1	Personal protective equipment (PPE) used in accordance						
			with river condition.						
		2.1.2	Clients welcomed and introduced with rafting crew.						
		2.1.3	Clients' personal belongings collected and stored at						
			designated place.						
2.1	Prepare for rafting	2.1.4	Safety briefing conducted for clients.						
	activity	2.1.5	Rafting equipment and gear prepared for rafting as per						
			rafting standard.						
		2.1.6	Rafting gear distributed to clients as per fitting and						
			checked clients' clothing.						
		2.1.7	Safety and serviceability checked on raft as per safety						





	checklist.	
	.1.8 Lunch, lunch spot and take out point fixed in coordination	
	with trip leader.	
	.1.9 Medical conditions of clients' rechecked.	
	.2.1 Launch site selected as per river condition.	
	.2.2 Clients boarded in seating positions as per their paddling,	
	swimming and physical abilities.	
	.2.3 Clients' paddling gear crosschecked to ensure comfort and	
	safety.	
2.2 Perform boarding	.2.4 Clients informed about <i>paddling commands</i> to be used.	
	.2.5 Correct paddling stroke demonstrated and clients engaged	
	in practice.	
	.2.6 Raft launched using paddling commands as per river	
	conditions and clients' abilities.	
	.3.1 Raft maneuvered using appropriate paddling commands	
	after trip leader's signal.	
	.3.2 River signals and commands used to communicate	
2.3 Perform raft guiding	between clients and other rafts.	
	.3.3 Clients engaged, entertained and guided throughout the	
	trip with safety and comfort.	
	.3.4 Commentary provided on river environment and local	

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			culture.		
		2.3.5	Raft stopped in the eddies and briefed.		
		2.3.6	Clients informed about rafting takeout.		
		2.3.7	Raft landed at takeout point.		
		2.4.1	Clients briefed on finishing of the trip and greetings		
			exchanged.		
	Perform post rafting activity	2.4.2	Clients rafting equipment collected, inspected and		
2.4			recorded.		
		2.4.3	Rafting equipment packed as per standard procedure.		
		2.4.4	Personal belongings handed over to clients.		
		2.4.5	Arrangement made for clients' departure.		
		2.5.1	Site rechecked and cleared at put-in point.		
2.5	Perform site clearance	2.5.2	Site rechecked and cleared at lunch point.		
		2.5.3	Site rechecked and cleared at takeout point.		

WT- Written Test

OQ- Oral Question

PT- Practical Test

DO – Direct Observation

SR- Supervisor's report

SN–Simulation

RP- Role Play

PG –Photographs

VD- Video

CT – Certificates

TS – Testimonials (Reward)

Revised Date: dd/mm/yy

PP – Product Produced

CS – Case Study



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Range Statement

Variable	Range
Personal protective equipment	May include but not limited to:
	River helmet
	• PFDs
	River shoes
	River knife
	Flip line
	• Whistle
	Throw bag
	Locking carabiner
Rafting equipment and gear	May include but not limited to:
	• Raft
	• PFDs
	River helmet
	• Paddles
	Throw bag
	• Rope
	Foot pump
	Hand pump
	Oar frame
	• Oars
	Paddle top





Paddling commands	May include but not limited to:	
	Forward paddle	
	Back paddle	
	Right back paddle	
	Left back paddle	
	Get down	
	Get back	
	Hold on	
	Stop paddle	





Elements of competency			Performance standards
. ,	3.1.1	Personal prot	ective equipment (PPE) used in accordance with river condition.
3.1 Prepare for rescue	3.1.2	Rescue kit pre	pared and placed in designated place.
	3.1.3	Knots prepare	ed as per requirement of rescue.
	3.2.1	Body position	maintained to minimize injury or entrapment.
	3.2.2	Defensive and	aggressive swimming technique used to reach nearest safety points.
3.2 Perform self-rescue	3.2.3	Swimmer read	ched to raft and recovered capsized raft to re-right position.
	3.2.4	Raft rowed to	safe points.
	3.3.1	Voice contact	and eye contact maintained with swimmer.
	3.3.2	T grip of padd	le extended to swimmer in case swimmer is within reach to raft and pulle
		safely.	
3.3 Rescue swimmer	3.3.3	Raft rowed to	swimmer.
	3.3.4	Rescue rope t	hrown within reach to swimmer.
	3.3.5	Swimmer safe	ely pulled on raft.
	3.3.6	Client condition	on assessed and first aid provided as per the requirement.

Task Performance Requirements (Tools, Equipment and Materials):

• Raft, wet suit, dry suit, neoprene suit, rope, Oar, Oar frame, Oar locks, O-ring, paddle, paddle top, pump, whistle, dry box, dry bag, throw bag, river knife, mallet, hammer, screw driver, Allen key, sand bar, cloths, duct tape, D-ring, carabiners, rubber adhesive, sand paper, sewing kit, scissors, chain saw, tubular webbing, gloves, messenger line, torch, rescue kit, first aid kit and personal protective equipment (PPE).



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7 Safety and Hygiene (Occupational Health and Safety):

- Use personal protective equipment.
- Safe handling of materials, tools and equipment.
- Hazards involved in lifting tools, equipment and materials.
- Prevent from river hazard and lightning hazard hazards.
- Dispose waste properly.





Required Knowledge							
8	Technical Knowledge		Applied (Calculation	Gra	phical Informatio	n
	Rescue tools and equipment:				• Read	d and interpret riv	er flow
	Introduction				diag	ram	
	o Types						
	 Preparation 						
	 Safe handling 						
	• Rescue						
	Introduction						
	 Types of rescues 						
	 Rescue technique 						
	• Knot						
	 Types of knots 						
	 Knot tying technique 						
	White water swimming						
	 Introduction 						
	 Defensive and aggressive swimming 						
	Raft flip drill						
	 Climb on raft 						
	Re-right raft						
^	First aid						
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o Introduction	
o Importance	
 Kit preparation 	
 First aid technique 	
Occupational health and safety rules and regulations	





9	Assessment of Competency								
	Unit: 3								
	Unit Title: Perform basic rescue operation								
			Candidate Details		As	sessors De	tail		
	Candidate's Name:			Assessors'	Name		ID/License No:		
	Registration Number:			1.					
	Symbol No:			2.					
	Test Centre:		Test Date:	3.					
Elen	Element of competency		Performance Standards		Standard Not Met	Evidence Type	Comments		
		3.1.1	Personal protective equipment (PPE) used in accordance						
0.4			with river condition.						
3.1	Prepare for rescue	3.1.2	Rescue kit prepared and placed in designated place.						
		3.1.3	Knots prepared as per requirement of rescue.						
		3.2.1	Body position maintained to minimize injury or						
			entrapment.						
		3.2.2	Defensive and aggressive swimming technique used to						
3.2	Perform self-rescue		reach nearest safety points.						
		3.2.3	Swimmer reached to raft and recovered capsized raft to						
			re-right raft.						
		3.2.4	Raft rowed to safe points.						



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3.3	Rescue swimmer	3.3.1	Voice contact and eye contact maintained with swimmer.			
		3.3.2	T grip of paddle extended to swimmer in case swimmer is			
			within reach to raft and pulled safely.			
		3.3.3	Raft rowed to swimmer.			
		3.3.4	Rescue rope thrown within reach to swimmer.			
		3.3.5	Swimmer safely pulled on raft.			
		3.3.6	Client condition assessed and first aid provided as per the			
			requirement.			

WT- Written Test

OQ- Oral Question

PT- Practical Test

DO – Direct Observation

SR- Supervisor's report

SN–Simulation

RP- Role Play

PG –Photographs

VD- Video

CT – Certificates

TS – Testimonials (Reward)

PP – Product Produced

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CS – Case Study





Range Statement

Variable	Range
Personal protective equipment	May include but not limited to: River helmet PFDs River shoes River knife Flip line Whistle Throw bag Locking carabiner
Rescue kit	 May include but not limited to: Throw bag Flip line Pulleys Locking carabiner Prusik cord River knife Whistle Webbing Messenger line Folding saw





Knots	 May include but not limited to: Water knot Figure of eight on a bight Butterfly Bowline Stopper
Safety points	May include but not limited to: Craft Shore Eddy







