



The Role of Standards in Outdoor Safety

Association of Outdoor Education & Recreation webinar

January 9, 2024

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viristar.com

viristar.com/aore-standards

Principal Concepts



Outdoor safety standards:





Support good safety outcomes, reliable access to outdoor spaces, sustainability of outdoor rec/ed sector Help clarify safety expectations

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Are set by outdoor sector associations, standards bodies, and others



Are activity-specific or apply to industry segments

Can be voluntary (usually) or required

Are relatively undeveloped in the USA; you can help

How Do Incidents Occur?



Outdoor industry can establish safety standards:

VIRISTAR

- Organizational good practices
- Individual activity leader training/qualifications

(Government can establish compulsory standards/regulations)

How Safe Is Safe Enough?

VIRISTAR

An outdoor program should be able to provide convincing evidence that it:

- Take reasonable precautions against reasonably foreseeable harms
- Reduce risks so far as is reasonably practicable (SFAIRP)



How Safe Is Safe Enough?

VIRISTAR

An outdoor program should be able to provide convincing evidence that it:

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- Reduce risks so far as is reasonably practicable (SFAIRP)







- February 2021, 15 year old Jethro Puah, on a school trip, fell from a ropes course, losing his life
- High elements across the country suspended for 2 years
- Facilitator facing 5 years in prison; company criminally charged
- Now, challenge course operators must every be accredited by Association for Challenge Course Technology Facilitators must be qualified by ERCA, ACCT or equivalent
- Gov't & private sector developing national safety standards for all adventure activities



Japan



- March 2017, seven Japanese high school students and their teacher died in avalanche at ski resort in Tochigi prefecture, 120 km north of Tokyo. Forty others hurt.
- During a mountaineering safety training program organized by local high school athletics federation.



Japan



- The region had received heavy snow over the past two days and avalanche warnings had been in effect.
- An avalanche during a similar training occurred seven years earlier; students were swept up to 60 meters away. Was not reported to athletics group.





Japan



- Japan Avalanche Network report cited problems in how club activities are organized.
- The local government and athletics group accepted liability. Superintendent said incident due in part to lack of a system for supporting safe extracurricular club activities.
- Development of adventure safety regulations in Japan under way.



Levels of Standards

Levels

- 1. Law
- 2. Regulation
- 3. Compulsory standards
- 4. Voluntary codes/guidelines











Georgia



- Mountaineering
- Skiing
- Parasailing
- Canyoning
- Rafting
- Caving
- Ziplining



საქართველო ეკონომიკა/ბიზნესი უცხოეთი საზოგადოება კულტურა სამება მოსაზრებე ახალი ამბები | ბოლო ამბები | გამოკითხვები | ქვიზები | ბლოგები | ყველა სტატია | ყველა ვიდეო

In Aragvi, 1 tourist died during rafting









18.07.12

P2222003700370000 902000 974020037001



18.07.12







National Outdoor Adventure Safety Law

Little exists:

United



Switzerland

Federal Act on Mountain Guides and Organisers of other High-Risk Activities

935.91

of 17 December 2010 (Status as of 1 January 2014)



Compulsory Standards

SAFETY AUDIT STANDARD	TABLE OF CONTENTS			
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HSE

Health and Safety Executive

Approved Codes of Practice

Guidance from the Licensing Authority on the Adventure Activities Licensing Regulations 2004

The Activity Centres (Young Persons' Safety) Act 1995



This is a free-to-download, web-friendly version of L77 (second edition, published 2007). This version has been adapted for online use from HSE's current printed version.

You can buy the book at www.hsebooks.co.uk and most good bookshops.

ISBN 978 0 7176 6243 2 Price £11.50

This book outlines the adventure activities licensing scheme, gives guidance on safety standards and on the licensing authority's functions and the approaches it will adopt in its dealings with providers and the public.

The aim of the licensing scheme is to give assurance that good safety management practice is being followed so that young people can continue to have opportunities to experience exciting and stimulating activities outdoors.

Much of the material in this book was issued in 1996 but the legal position changed when the Health and Safety Executive (HSE) was designated as Adventure Activities Licensing Authority (AALA) from 1 April 2007. Other changes include adopting the lessons learned in the previous years of operation; and clarifying areas that have caused confusion. The technical content has been fully updated where required.

The following activities are within the scope of the scheme:

- caving (underground exploration in natural caves and mines including potholing, cave diving and mine exploration, but not in those principally used as show-places open to the public);
- climbing (climbing, traversing, abseiling and scrambling activities except on purpose-designed climbing walls or abseiling towers);
- trekking (walking, running, pony trekking, mountain biking, off-piste skiing and related activities when done in moor or mountain-country above 600 metres and which is remote, ie over 30 minutes travelling time from the nearest road or refuge);
- watersports (canoeing, rafting, sailing and related activities when done on the sea, tidal waters or larger non-placid inland waters).

Code of Practice on

Workplace Safety and Health (WSH) Risk Management





HSE Books

Outdoor/Experiential/Adventure industry association activity standards:



ANSI/ACCT 03-2019

Activity-specific standards



Ropes Courses - Adventure Parks - Net Parks - Zip Lines - Simulated Freefall Device

THE UK ROPES COURSE AND OFF-GROUND ADVENTURE ACTIVITIES GUIDE 2021

For those involved in the design, construction, operation, inspection and maintenance of ropes courses and other off-ground adventure activities.





Association for Challenge Course Technology+



(Revision of ANSI/ACCT 03-2016 Standards)



DESIGN • PERFORMANCE • INSPECTION OPERATION • TRAINING



International Climbing and Mountaineering Federation

Climbing and

Climbing and Mountaineering Equipment UIAA 101

UIAA

Foreword

This UIAA Standard is only published in the English language version, which is the master text. For any validations in translation, the UIAA Safety Commission should be contacted via the UIAA Office in Bern, Switzerland.

UIAA Standards are the only 'globally recognized' standards for mountaineering equipment. In order to prevent multiplicity, the UIAA collaborates with its partner in standardization CEN; and bases UIAA standard 101 on the European Standard EN 892:2012 + A1:2016. The EN Standards in turn are based on the original UIAA Standards, the first of their kind in the world. Additionally the UIAA publishes pictorials for each of the standards in a user-friendly way. This UIAA Standard 101 also has additional requirements over and above those in EN 892:2012 + A1:2016.

Owing to copyright restrictions, this UIAA Standard does not state the full requirements of EN 892:2012 + A1:2016 to which it refers. Hence it is necessary to obtain a copy of EN 892:2012 + A1:2016. The procedure for purchasing the EN Standards is included at the end of the text of this standard. The UIAA Standards are reviewed at intervals to see whether they meet the latest technical requirements and revised if necessary.

The UIAA invites manufacturers of mountaineering and climbing equipment worldwide to become members of the UIAA Safety Commission as Safety Label Holders. Members can participate in discussions on standard requirements, test methods and revisions thereof (see the "General Regulations for the UIAA Safety Label").

A <u>complete list of UIAA Standards</u> for mountaineering and climbing equipment can be found on the UIAA website.

This standard has been created and updated based on scientific research coordinated and funded by UIAA, as a service to all mountaineers.

© 2014, 2015, 2016, 2018 & 2019 UIAA		
Copyright is secured for the pre	sent standard work including all its parts. Any use beyond the limit of the copyright act is forbidden by law.	
This concerns especially copying, microfilming and feeding and processing in electronic data systems.		
VERSION	UIAA 101_V9	
LAST UPDATED	September 2019	
COMPLIANCE DATE	Within 6 months period from official release	

Outdoor/Experiential/Travel/ Adventure industry association operational standards:



Standards from standards-publishing bodies

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM	EN 15567-1:2015+A1 February 2020	BS 8848:2014	INTERNATIONAL ISO STANDARD 21101
ICS 97.220.10 Er Sports and recreational fa Construction and Structures de sport et d'activités de plein air - Parcours acrobatiques en hauteur - Partie 1 : Exigences de construction et de sécurité This European Standard was approved by CEN on 12 Mar 2019. CEN members are bound to comply with the CEN/CENELI European Standard the status of a national standard with concerning such national standards may be obtained on a member. This European Standard exists in three official versions (E translation under the responsibility of a CEN members into Centre has the same status as the official versions. CEN members are the national standards bodies of Austrit Finland, France, Germany, Greee, Hungary, Iceland, Irela Poland, Portugal, Republic of North Macedonia, Romania, United Kingdom.	Supersedes EN 15567-1:2015 anglish Version cicliticies - Ropes courses - Part 1: d safety requirements Sport- und Freizeitanlagen - Seilgärten - Teil 1: Konstruktion und sicherheitstechnische Anforderungen ct 2015 and includes Amendment 1 approved by CEN on 11 November EC Internal Regulations which stipulate the conditions for giving this out any alteration. Up-to-date lists and bibliographical references upplication to the CEN-CENELEC Management Centre or to any CEN a, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, d, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and	<section-header><section-header><text></text></section-header></section-header>	In the second se
EUROPEAN COMM COMITÉ EUROP EUROPÄISCHES CEN-CENELEC Management Cen © 2020 CEN All rights of exploitation in any form and by a	ITTEE FOR STANDARDIZATION *ÉEN DE NORMALISATION S KOMITEE FÜR NORMUNG ntre: Rue de la Science 23, B-1040 Brussels my means reserved Ref. No. EN 15567-1:2015+A1:2020 E	bsi. making excellence a habit."	Reference number ISO 21101:2014(E) © ISO 2014

Activity leader qualifications/certifications

Can be compulsory or voluntary



Activity leader awards but one of many components of a comprehensive risk management system

Georgia Response



საქართველოს სტანდარტი

სსკ: 97.220.10

სპორტული და რეკრეაციული ობიექტები - საბაგირო კურსები ნაწილი 1: სამშენებლო და უსაფრთხოების მოთხოვნები

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2021



Georgia Response















Case Study: SUP Incident

- Group of 9 Stand Up Paddleboarders
- Western Cleddau River, Wales, October 30, 2021
- Nine minutes into trip, encountered low head dam (weir)

ROBE

• Four people (3 participants, 1 leader) drowned



- Plan was for a two-day trip down estuarine waters, to pub at Burton Ferry
- Encountered weir 750 meters in



Launch site

Dam (Weir)

Case Study: SUP Incident





Low water: minimal recirculation





Conditions on day of trip



Analysis

Risk Domains: Direct & Underlying Govern-Outoor Society Business Industry ment **Business** Activities, Equip-Partici-Subcon-**Transpor-**Culture Staff Admini-Program pants tractors tation ment stration Areas Incident



Findings

Risk Domains

Direct Risk Domains

- Activities and Program Areas
 - Reconnaissance was inadequate
 - Safety signage near the dam was inadequate
 - Tour leader awareness of the effect of tide on dam hazards appeared to be absent
 - Tour leaders were not aware of a flood alert
 - No New Element Readiness Assessment was conducted by tour company
 - Existing risk assessments for the low head dam were not taken into consideration
 - Tour leader awareness of hazards of low head dams appeared to be absent
- Staff
 - Staff were inadequately trained
 - Staff performed high-risk rescue
- Equipment
 - PFDs were not worn
 - Quick-release waist leashes were not used
- Participants
 - Participants received inadequate safety information from tour provider
- Business Administration
 - System for participant release of liability not in place

Underlying Risk Domains

- Government
 - Risks associated with the dam were not assessed, and appropriate mitigation measures were not taken
 - It was unclear who owned and was responsible for managing the dam and the nazards it created
 - No national standard to assess and manage low head dam risk is universally instituted

- Outdoor Industry
 - Safety requirements specific to SUP tours are not universally enforced
 - Safety training for outdoor program administrators is lacking
 - Outdoor equipment manufacturers and distributors do not universally provide appropriate safety equipment with SUPs
 - National governance of stand up paddleboarding in the UK is unsettled
 - Training practices for teaching SUP classes in the UK are incompletely developed
 - NGPe surrently overseeing SUP lack needed expention
 - A system for ensuring NGBs in the UK have quality safety standards does not exist

Risk Management Instruments

- Risk Transfer
 - No liability release documentation was provided or completed
- Risk Management Committee
 - The tour company appeared to have no Risk Management Committee
- Medical Screening
 - Medical screening was not conducted
- Documentation
 - Emergency contact details for participants were not requested or collected
- Seeing Systems
 - Systems-informed safety practices were not in place

Inadequate recce

- Original recce 2 months earlier at low water, high tide
- Recce day of was of river, but not at weir site
- Sign by launch site warned of weir; advised to portage, but was not heeded

Image: Haverfordwest Twinning Association and Jan Jenkins

Adequate risk assessment not completed
 Existing risk assessments not taken into consideration
 (Published online by Haverfordwest Kayak Club, warned weir area extremely dangerous, normally should not be used)

N IN T

Awareness of dam hazards appeared absent



Courtesy of the American Canoe Association

Staff inadequately trained Staff attempted high-risk rescue (paddling over weir)



Trip co-leader Paul O'Dwyer 42 years old, father of three

Avid adventurer, skier, climber

2 55

Reach or throw, don't go!

If someone is in trouble in the water, throw them a life preserver. Never go in!



American **Red Cross**



Equipment

- Waist leashes not used
- PFDs not worn



Participants received inadequate safety information Not briefed on presence of weir Unaware they would be descending the weir Not briefed on how to descend it Not aware intention was to have portage option



Cyfoeth Naturiol Cymru latural Resources V



WEIR FEATURES AND HAZARDS

FEATURES/HAZARDS

C. Height of drop:

3. WEIR RISK RATING

Risk = Hazard x Likelihood

WEIR HAZARD LEVEL:

Level of 1-5 taken from Table 1 (bage 3)

Level of 1-S taken from Table 2 (obbosis

WEIR RISK RATING SCORE

WEIR RISK RATING LEVEL

Very Low

2

4

6

8

10

should be proportional to the risk.

Action

short term

6

12

Action required to reduce the risk although low priority. Time, effort and cos

Action required soon to control. Interim measures may be necessary in the

Action required urgently to control the risks. Further resources may be ne

8

12

16

20

10

20

Hazard

Likelihood

Very Unlikely

2

Unlikely

Likely

4

Very Likely

Almost Certal

Risk Level

LOW

MEDIUM

HIGH

Score

1-5

6 - 10

12 - 25

B. Depth of hydraulic/stopper

A.Towback:

D. Slope:

2



Class II Class III > Class III

G.WORKING AREA ON BANKS Good working areas on both banks Good working areas on one bank only Limited or restricted working areas on both No working areas on other bank

H.ANCHORS FOR ROPE SYSTEM

Good anchor points on both banks Good anchor points on one bank onl Limited anchor points on both banks

Lented another parties on both basils **LAVALLABLE RESCUETECH-MEDIA** Full range of stage and evolve thank methods with essay stallar so cross full range of stage and evolve than methods but offlowed to cross channed with respect og bridge, shert throw or hallow crossing Limited to single bask methods or use of matternical bast May but Matternic approximations and there May but Matternic approximations analytics

speer only wear not possible (overhead wires etc) HEIGHT OF BANKS ABOVE BASE OF HYDRAULIC/STOPPER

WEIR RESCUE DIFFICULTY SCORE:

WEIR RESCUE DIFFICULTY LEVEL

Difficulty Level Low (1) Medium (2)

Mes / Rescue

20-25

Mar 2016 v21

> 25

High (3)

Corresponding Difficulty Level from

Weir Rescue Difficulty Level Difficulty Score < 20

(D Named 8

NOTES

Government

- Risk assessment of weir not completed
- Appropriate mitigation \bullet measures were not taken

		-
		2. LIKELIHOO HARM
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and the second		Land downstream river right
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		Water downstream
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	 A second s	Land
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		Upstream river right
		Downstream river left
		Downstream river right
		Water:
		Upstream Structure Soructure Downstream Controlles No downe
		ABILITY TO SELF-RESH Tsking inco account the exit the water above beyond our rescue before entering the
		Upstream river left
		Upstream river right
1.		Downstream river left
		Downstream river right
		LIKELIHOOD OI Sum of scores selected for
		Corresponding Likelihood I
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		Likelihood Score
		4 ONerel Inco

-				
NATURAL	RESOURCESV	VALES	/ RESCUE	3 EUROPE
	WEIR ASSESS	MENT	SYSTEM	
				2
Name of assessor	·			
Date of assessme	nc			
Name of wair / si				
Other names wei	r known as:			
Weir location and	Iniver:			
Grid reference:				
RIVER FLO	W INFORMATION			
Reference Gauge	Location:			
l				
	River level (m)		Row ra	nge (m ³ /s)
Low				
	-			
Medium				
High				
Flood state	1			
River level on day	of assessment - level (m) & flow	(m ³ /s)		
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		LISE	SECTION	
HARM	D OF WEINTO CA	NUSE	The riverfuncterway of	an be divided into four
fow to use this table: a each consideration scient	are description and circle the corrector	day some	sections for ease of i and downstream of t	centification: upstream he wein/hazard and river
dd up the circled scores and lavn bax.	write the total in the Likelhood of Weir	to Couse	left and river right. The perspective of looking	iis is always done from the g downstream.
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ubilic access from land and acation?	water - is the structure in a publicly	accessed	Upstream	Upstream
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and upstream river left	no public access from land/bank public access from land/bank	0.25		
and downstream river right	no public access from land/bank public access from land/bank	0.25	D	P
and downstream river set	public access from land/bank on access to weir from unstream	0.25	10	1 II.
Vator downstream	access to we'r from upstream no access to weir from dowsstrear	n 0.5		. have
ONTROL MEASURE	access to we'r from downstream	0.5	-17	
re there control measure om entering the wair?	in place, eg fences or booms, to pre-	vant people	1/1	
and			11+	
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lpatneam Structure Structure	not in main channel/boom present in main channel/no boom present	0		1
No down	f by boom or by high speed of water stream control measures	0.5		
BILITY TO SELF-RES	CUE Itilet control measures, if a person we	re to fall into		
he water above beyond/or escue before entering the	tside the existing control measures a weir?	an they self		
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orresponding Likelihood ikelihood Level:	level fram toble below		<u> </u>	
Likelihood Score	0-1 >1-2	>2-3	>3-4	>4-5
Ukelihood Level V	Unlikely (1) Unlikely (2)	Likely (3)	V Likely (4)	Almost certain (5)
 W Natural Resol 	ross roses r mescue 3 Europe Plar 2016 v2			

Dam ownership unclear: no agency or group initially claimed ownership



No national standard to assess and manage low head dam risk

Image: Haverfordwest Twinning Association and Jan Jenkins

Outdoor Industry

Safety requirements specific to SUP tours not universally enforced

- Accreditation: optional for SUP tour providers
- Safety training for outdoor program administrators lacking

Outdoor Industry

National governance of SUP is unsettled

• Unclear who is NGB for SUP

safety standards

- NGBs not required to have safety systems
- No unified SUP safety standards
- NGBs did not keep up with evolution in SUP

Training practices for SUP classes incompletely developed
NGBs overseeing SUP lack needed expertise
No system to ensure NGBs have quality

Risk Management Instruments

- No liability release documentation was provided or completed
- The tour company appeared to have no Risk Management Committee
- Medical screening was not conducted
- Emergency contact details for participants were not requested or collected
- Systems-informed safety practices were not in place

Government response

- Organization was shut down
- Trip organizer reportedly arrested by police, on suspicion of gross negligence manslaughter, and released under investigation

ACCIDENT REPORT

M

Report on the investigation into the

stand up paddleboarding accident that resulted in four fatalities at Haverfordwest Town Weir, Wales on 30 October 2021

REPORT NO 13/2022

Notices served

Notice 312337497 served against Salty Dog Co Limited on 18/11/2021		
Notice	Immediate Prohibition Notice	
Туре		
Description	PNJHET30102021/01 - 312337497 you have failed to implement safe systems of work in accordance	
	with industry standards to minimise the risk of capsize	
Breaches in	nvolved in this Notice	

Location of Offence				
Address Port Talbot/Salty Dog Co Limit 55 Jersey Quay	Port Talbot/Salty Dog Co Limit	Region	Wales & South West	
	Local Authority	Neath & Port Talbot UA		
	West Glamorgan	Industry	Total service industries	
SA12 6QN Wales	Main Activity	85510 - SPORTS/RECREATION EDUCATION		
	Type of Location	Fixed		
HSE Details				
HSE Group	FODOP8GP32	HSE Directorate	Field Operations Division	
HSE Area		HSE Division	Wales	

Morgan Rogers

- Tour participant, 24 years old
- Strong swimmer
- Paddleboard experience on sea & canals
- Firefighter with South Wales Fire and Rescue Service
- Junior firefighter instructor
- Goal to join water rescue station, be Royal National Lifeboat Institution crew member
- Awarded British Canoeing Paddlesport Performance 1 and 2 Star certificates
- Attained BTEC Level 3 National Diploma in Sport (Outdoor Adventure)--a 975hour qualification
- In UK, with national outdoor safety legislation
- Drowned
- What is it about the system of trainers, NGBs, standards, and laws that failed to protect her from harm?

USA Context

- Little in the way of legal standards specific to outdoor education and recreation
- Some activity-specific standards, like certification for paddling and climbing, but optional
- Some experiential adventure standards, like AEE, but few are accredited. ACA camps an exception.

How You Can Be Involved

Principal Concepts

Outdoor safety standards:

Support good safety outcomes, reliable access to outdoor spaces, sustainability of outdoor rec/ed sector Help clarify safety expectations

2
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Are set by outdoor sector associations, standards bodies, and others

Are activity-specific or apply to industry segments

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Are relatively undeveloped in the USA; you can help

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January 9, 2024

Jeff Baierlein, Director, Viristar

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