

ML(W) への参加資格 REGISTRATION

Before registration for the Winter Mountain Leader scheme candidates must:

- Be at least 20 years old. 大学生レベルから
- Already hold the Summer Mountain Leader award.
- Have recent experience of hill walking and mountaineering in winter conditions in at least three different mountain areas in the UK.
- Have experience of an absolute minimum of 20 Winter Quality Mountain Days, see Appendix 2.
- Be well practised in the use of ice axe and crampons.

The Winter Mountain Leader Award

SYLLABUS

- 1 Snow and Avalanches
- 2 Snow Holes and Emergency Shelters
- 3 Ice Axe and Crampon Skills
- 4 Security on Steep Ground
- 5 Cold Weather Injuries
- 6 Navigation
- 7 Winter Weather
- 8 Expedition skills

Syllabus1; Snow and Avalanches1

例えば、雪庇に注目すると

Candidates should be able to continually evaluate the terrain, snowpack and weather conditions to draw sensible educated conclusions regarding avalanche hazard:

- 1.1 interpret snowpack structure through the use of snow pit analysis and shear tests.
- 1.2 identify windslab, neve, graupel and other snow types.
- 1.3 identify possible windslab and cornice formation on a particular slope as a result of snowfall intensity and wind direction.**
- 1.4 identify how changes in weather conditions effects the snowpack.
- 1.5 identify the types of avalanche common in Britain.
- 1.6 identify situations of high avalanche danger and those of little avalanche danger.
- 1.7 demonstrate safe and effective precautions when negotiating a slope that may be avalanche prone.
- 1.8 state the actions to be taken if involved in an avalanche incident and organize a search and assistance for those buried in an avalanche.
- 1.9 identify sources of avalanche information.

Syllabus3

Ice Axe and Crampon Skills

- On Grade 1 ground, using ice axe and crampons as appropriate, demonstrate safe, efficient and confident movement so that the following technical obstacles may be overcome:
 - 3.12 cornices.
 - 3.13 water ice.
 - 3.14 neve.
 - 3.15 rock steps.
 - 3.16 mixed ground.



Syllabus4

Security on Steep Ground

- Candidates should be able to provide security for individual members of a hill walking party during ascent and descent of short sections of ground up to and including Grade 1 ground and cornices, using techniques appropriate to equipment carried by a hill walking party, for example, ice axe, rope, sling and karabiner. Candidates should be able to efficiently and safely:



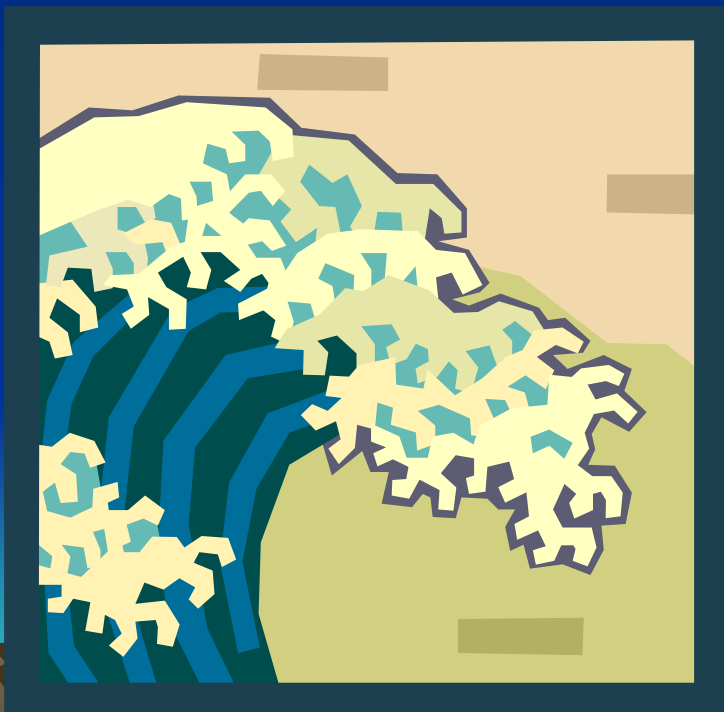
Syllabus8

Expedition Skills

- 8.6 identify and minimise the risks created by the following hazards
 - 8.6.1 loose and verglassed rock.
 - 8.6.2 snow bridges above streams.
 - **8.6.3 cornices.**
 - 8.6.4 avalanche prone slopes.
 - 8.6.5 strong winds.



標準化の波



欧米で見た標準化の流れ

- UIAAのsafety com, mountaineering comなどの委員会を中心に、標準化が進められていた。
- 登山道具では、標準仕様の決められた多くの試験装置が稼働し、その条件下で強度特性などが検討されていた。
- 教育系においても、登山指導者に対する指導法の標準化が検討されている





Annual Conference of Safety Commission , UIAA

UIAA Safety Standard (UIAA = Union Internationale des Associations d'Alpinisme)



**Mountaineering
and Climbing
Equipment**

Dynamic Ropes

**UIAA
101**

July 2004

Foreword

UIAA Safety Standard is only published in the English language, which is the master text. If anybody requires help in validating a translation into French, German, Italian or Spanish, the corresponding National Delegate of the UIAA Safety Commission should be contacted via the UIAA Office in Bern, Switzerland.

ここでは、すべての試験装置がUIAAの基準に則り作られていた



LES TESTS U.I.A.A

CORDES

- 5 CHUTES SUCCESSIVES SANS RUPTURE DE L'ÉCHANTILLON.
FACTEUR DE CHUTE POUR L'ESSAI : 1,78
- MASSE : 80 KG.
- FORCE CHOC MAXIMALE AUTORISÉE : 1200 daN.
- TEST DE GLISSEMENT DE LA GÂINE.
ALLONGEMENTS RELATIFS SOUS 80 KG : 8%
- TEST DE SOUPLESSE AU NOEUD.

The diagram illustrates the test setup. A rope is attached to a fixed point at the top, passes through a pulley, and then down to a weight of $M = 80 \text{ KG}$. The distance from the pulley to the weight is $4,7 \text{ m}$. A second weight of $M = 80 \text{ KG}$ is shown at the top, with a distance of $2,3 \text{ m}$ between the two weights. A section of the rope is shown with a 500 mm length and a 20° angle. A dynamometer is shown with a scale of 1200 daN MAXI . A knot is shown with the text "IMPOSSIBLE" next to it.

DE 1,1
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UIAA Standards for Voluntary Leaders and Instructors

**Guidance notes for Member
Associations' training and
assessment schemes**

Pierre Humblet

UIAA Mountaineering ComのPresident

Steve Long Vice President

B. Activity Standards

Specifications for pretraining experience, skills and knowledge

1. Mountain Walking and Trekking (summer)
2. Winter Mountain Walking and Snowshoeing
3. Sport Climbing (indoor and outdoor)
4. Rock Climbing (leader placed protection)
5. Ice Climbing
6. Alpine Climbing
7. Ski Mountaineering



終わりに

- 冬山研修に対する、欧米の安全意識については、改めて、調査する必要がある。
- 現在、安全検討会が、「どのような具体的な情報を必要としているのか」を明確にした段階で、Plas-y-breninのSteve氏、あるいはUIAAのM. Com.委員長Pierre氏に問い合わせるのが、一番適当と考える。
- しかし、長期にわたり、様々な問題を相談するのであるのなら、彼らに顧問委託することも考えられる