

MINISTRY OF DEFENCE Defence Staff Directorate General Force Development Division

Special challenges for MilEng Combat Support and Combat Service Support in mountainous regions

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🗸 Curriculum Vitae

MilOps / Mountain warfare in mountainous terrain

- \circ General
- $\circ \textbf{Principle}$

CS & CSS requirements for cold weather operations

- Specialist training, organisation and equipment for supporting OPS
- Exercising mountain manoeuvre and unit mountain tactical drills

Specific examples

- **O Material Ropeway**
- \odot Infantry Assault Bridge



Curriculum Vitae

CLINDNER Heinrich

- \circ LTC (OF-4)
- \circ AUT Mod
 - Capability Manager MilEng & Log
- \odot MA-degree "Military Leadership"



- Fully trained BGDCDR MilEng & Log
- Fully trained staff officer LCC NBC-defence
- \odot Several missions

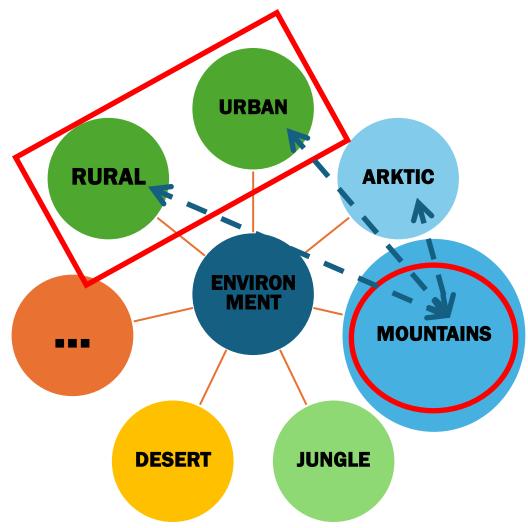


Influence of the special conditions in mountainous regions

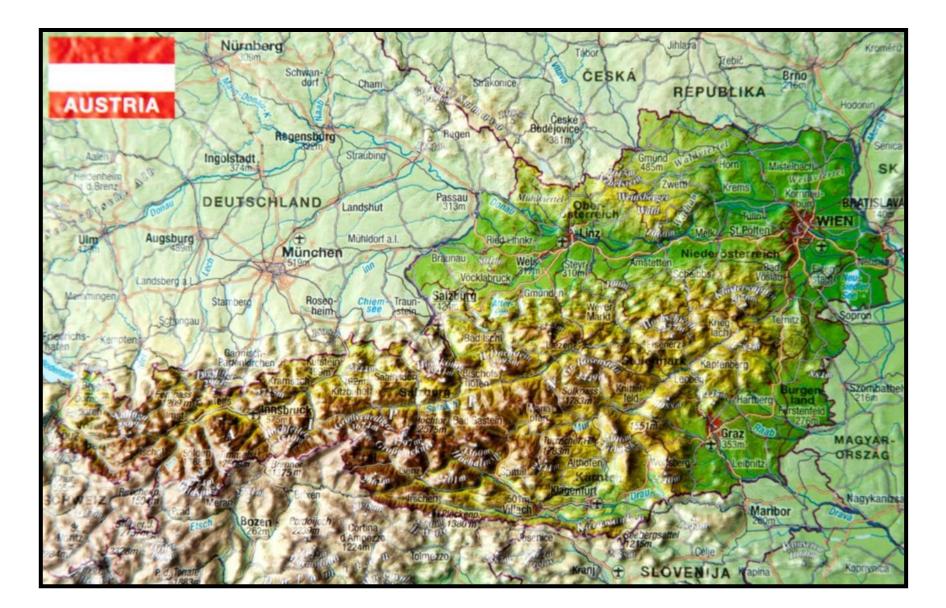
O Peculiarities of mountain combat













Mountain warfare is the use of forces in a terrain with

\circ large differences in altitude,

 $\ensuremath{\circ}$ special influences of the weather,

little or no infrastructure at all.
"austere environment"





Nountains are spatially closed, elevated parts of the earth's surface, which are separated from their flatter surroundings by an often clearly defined mountain base and are categorized into mountains, valleys and plateaus.

There is a distinction between medium and high mountain ranges.

 The limit is around 2.000 m altitude in midlatitudes (e.g. ALPS) and elevated in tropical areas.



Mountain warfare - principle

The criteria for a mountain range can also apply on a small scale to parts of the terrain that are not fundamentally a mountain but have many of the characteristics of a mountain (ravines, canyons, cliffs).

The principles of mountain warfare must therefore be applied in that terrain.



Mountain warfare - principle

Preparing for the operational conditions Strengthening mind and body to survive in the environment.

Omnipresence

 \odot Surprise the enemy with a 360 $^\circ$ threat.

Exploiting favorable opportunities Exploit all opportunities in favorable terrain.





Mountain combat - principle

Dominate the battlefield

 "Whoever holds the heights can use the valleys and whoever does not hold the valleys loses the heights."

String all available weapons into effect Ouse complex weapon effects on the opponent.

Deprive the enemy of his freedom of action and cut off his supplies
Interrupt the opponent's communication and supply lines.





CS & CSS requirements

Mountain combat differs from that on the plains and therefore requires

- consideration of the dominant influence of terrain, season and weather on the deployment of forces and the planning / execution of courses of action.
- \circ consideration of additional objective and subjective dangers of the mountains.





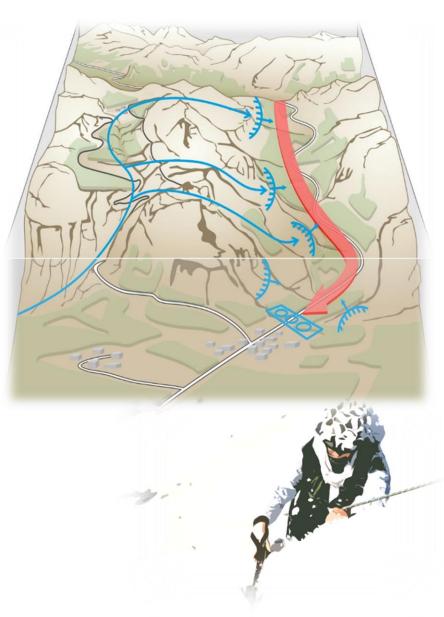


CS & CSS requirements

Mountain combat differs from that on the plains and therefore requires

 deployment in (often) overextended areas of operations / interest / responsibility.

 the deployment of small combat units with a long-term mission at crucial terrain points.

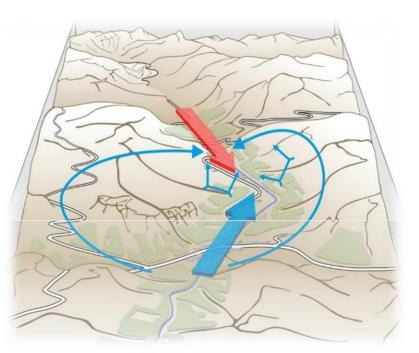




CS & CSS requirements

Mountain combat differs from that on the plains and therefore requires:

- $\circ~$ increased time for all movements and maneuvers.
- \odot increased time, changed capacity and appropriate means of transport in supply.
- higher physical and psychological demands with less opportunity for regeneration.







Specialist training

Specialist training relates to terrain categories

High mountain combat ability High mountain mobility

Extremely always professional staff

medium mountain range combat ability medium mountain range mobility

> rural urban

Difficult in some cases with specialist staff

Standard without specialist staff





Specialist training

Specialist training relates to terrain categories

 \circ responsibility at mountain combat training centre

Capability cooperation – lead nation AUT









Essential for mountain combat is a staff cell for the special demands on the mountainous area on BN-level and BGE-level.

COY-level requires specialists for reconnaissance and support.





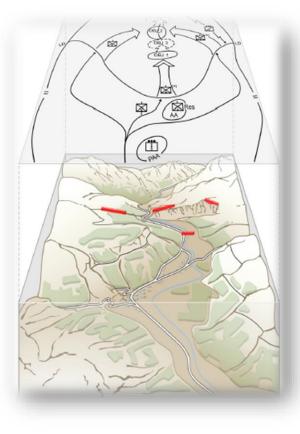
Equipment

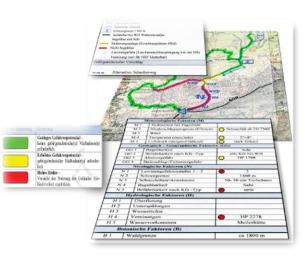




Exercising mountain manoeuvre

Training as MAPEX, SIMEX, FTX in multinational environment.



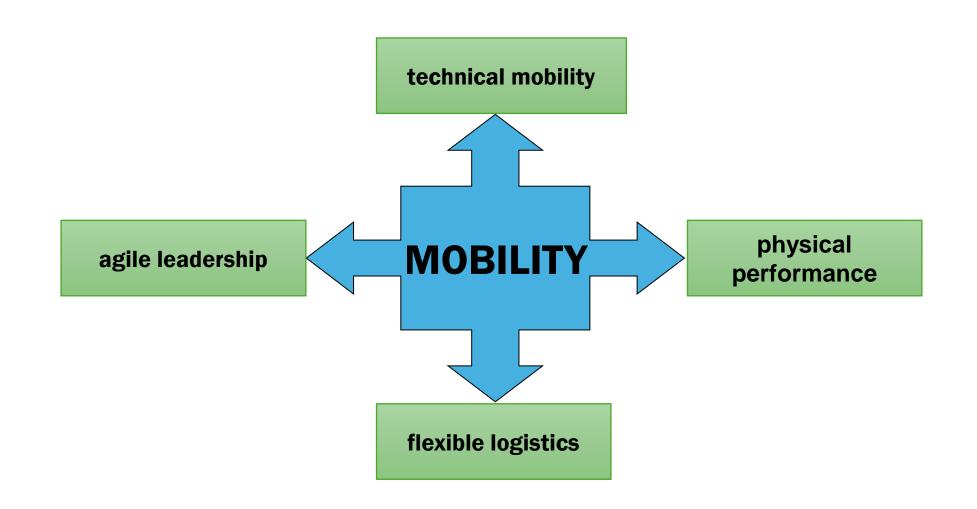








Unit mountain tactical drills





Specific example – material ropeway

♦ AAF do have one special asset that combines the functionality of MilEng CS and CSS.

Material ropeway







Specific example – material ropeway

♥ Material ropeway – data:

- \odot 1 PLT with 2 autonomous operable systems
 - System 1 up to 2000 m free pending steel cable and a maximum load of 2500 kg.
 - System 2 up to 1500 m free pending steel cable and a maximum load of 1500 kg.











♥ Material ropeway – data:

- \odot Transportation of all goods and material
- For rescue issues useable for transportation of personnel
- Independent of weather conditions except storm and strong gusts





Specific example – Infantry Assault Bridge







Infantry Assault Bridge – data:

- \circ 2 sets / ENGBN
 - Dry Gap crossing: up to 20 m /set
 - Wet Gap crossing: up to 30 m /set up to 44 m (2 sets)







Specific example – Infantry Assault Bridge

Infantry Assault Bridge – data:

- **o (Light) Infantry**
- \circ Urban Ops
- \circ Air Lift
- \circ Rescue Ops
 - Disaster Relief Ops





Thank you for your attention!