

# HCS1

HUMAN CARGO SLING OPERATIONS



BAZL - OFAC - FOCA

CH-Licence N°

Helicopter Human cargo sling operations "Level 1" required by RFP Art. 133 g  
After completion of training send this form to: Bundesamt für Zivilluftfahrt (BAZL), FA / Helikopter, Maulbeerstrasse 9, 3003 Bern

Name: ..... First Name: ..... Date of birth: .....

Tel Privat: ..... Tel Mobile: ..... Fax: .....

Change of address (indicate new address) ☐ oui / ja E-Mail: .....

Zip code / City: ..... Street: .....

Pilot in charge of theoretical instruction (must have a minimum of 500h ECS experience):

Name: ..... First Name: ..... CH Licence N°: .....

## HUMAN CARGO SLING INSTRUCTION

### FOM

Flight and duty times .....	<input type="checkbox"/>	<input type="checkbox"/>
Max. cycles / day .....	<input type="checkbox"/>	<input type="checkbox"/>
Min. and max. fuel .....	<input type="checkbox"/>	<input type="checkbox"/>
Refueling procedures .....	<input type="checkbox"/>	<input type="checkbox"/>
Radio communications .....	<input type="checkbox"/>	<input type="checkbox"/>
Human factors / CRM / nutrition .....	<input type="checkbox"/>	<input type="checkbox"/>
Safety equipment / operational briefing .....	<input type="checkbox"/>	<input type="checkbox"/>
Pilot / HCS crew member responsibilities .....	<input type="checkbox"/>	<input type="checkbox"/>

### Flight Manual

Limitations .....	<input type="checkbox"/>	<input type="checkbox"/>
Performance / HOGE .....	<input type="checkbox"/>	<input type="checkbox"/>
Cargo Hook supplement .....	<input type="checkbox"/>	<input type="checkbox"/>

### Flight Procedures

Airspeed selection with load .....	<input type="checkbox"/>	<input type="checkbox"/>
Flight path selection (3rd party) .....	<input type="checkbox"/>	<input type="checkbox"/>
Bank / load factor / load drag .....	<input type="checkbox"/>	<input type="checkbox"/>
Load stabilisation techniques / hover & in-flight .....	<input type="checkbox"/>	<input type="checkbox"/>
Downwash / load rotation .....	<input type="checkbox"/>	<input type="checkbox"/>
Visual hover reference / vert, horiz .....	<input type="checkbox"/>	<input type="checkbox"/>
Rotor clearance .....	<input type="checkbox"/>	<input type="checkbox"/>
Hand signals .....	<input type="checkbox"/>	<input type="checkbox"/>
Environement / slope / forest, canyon .....	<input type="checkbox"/>	<input type="checkbox"/>
Night operations / lights / NVG / Nightsun .....	<input type="checkbox"/>	<input type="checkbox"/>
Off Ground operations (crane, chair lift, etc) .....	<input type="checkbox"/>	<input type="checkbox"/>
Decision / exposure time .....	<input type="checkbox"/>	<input type="checkbox"/>

### Load & Person Preparation

Vertical loads .....	<input type="checkbox"/>	<input type="checkbox"/>
Horizontal loads .....	<input type="checkbox"/>	<input type="checkbox"/>

#### Minimum requirements before starting practical HCS 1 instruction:

- |   |                          |
|---|--------------------------|
| - CPL(H) / ATPL(H) .....                | <input type="checkbox"/> |
| - Min 1'000h HEL / 1'500 ECS cycl ..... | <input type="checkbox"/> |
| - ECS Level 1 completed TO 20m .....    | <input type="checkbox"/> |
| - Type rating completed .....           | <input type="checkbox"/> |
| - Min. 10h PIC on type of HEL .....     | <input type="checkbox"/> |
| - HCS Ground instruction reviewed ..... | <input type="checkbox"/> |

Multiple person extraction ..... ☐ ☐

### Special Equipment

Rescue Harness .....	<input type="checkbox"/>	<input type="checkbox"/>
Special equipment used by company:		
1. ....	<input type="checkbox"/>	<input type="checkbox"/>
2. ....	<input type="checkbox"/>	<input type="checkbox"/>
3. ....	<input type="checkbox"/>	<input type="checkbox"/>
4. ....	<input type="checkbox"/>	<input type="checkbox"/>
5. ....	<input type="checkbox"/>	<input type="checkbox"/>
6. ....	<input type="checkbox"/>	<input type="checkbox"/>

### Emergency / Limitations

Flight control stops .....	<input type="checkbox"/>	<input type="checkbox"/>
TR failure .....	<input type="checkbox"/>	<input type="checkbox"/>
Engine failure / OEI operation .....	<input type="checkbox"/>	<input type="checkbox"/>
Height velocity diagram / exposure time .....	<input type="checkbox"/>	<input type="checkbox"/>
HEC emergencies / malfunctions .....	<input type="checkbox"/>	<input type="checkbox"/>
Review of HCS accidents .....	<input type="checkbox"/>	<input type="checkbox"/>
Emergency load jettison .....	<input type="checkbox"/>	<input type="checkbox"/>

### Dangers

Windshield defogging / demisting .....	<input type="checkbox"/>	<input type="checkbox"/>
Low temperature operation / Chill factor .....	<input type="checkbox"/>	<input type="checkbox"/>
Cables / wires .....	<input type="checkbox"/>	<input type="checkbox"/>
Airflow / up and downdrafts / Settling with power / vortex .....	<input type="checkbox"/>	<input type="checkbox"/>
Sun / shadow / snow / rain / static .....	<input type="checkbox"/>	<input type="checkbox"/>
Light / Twilight / Night ops .....	<input type="checkbox"/>	<input type="checkbox"/>
Cliffs / falling rocks .....	<input type="checkbox"/>	<input type="checkbox"/>

Remarks:

I herewith certify that the trainee has received the required HCS ground instruction and is found competent to begin the practical HCS 1 instruction.

Date: .....

Name: .....

Signature: .....

# HCS1

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## FLIGHT INSTRUCTION

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**Cable length: ≤ 25 m****Operating ALT: ≤ 3'000m / AMSL****OPERATIONAL EQUIPEMENT**

1 MERS.....	5 .....
2 .....	6 .....
3 .....	7 .....
4 .....	8 .....

**EMERGENCY PROCEDURES**

1 Engine failure	5 .....
2 OEI operation	6 .....
3 Loss of communication	7 .....
4 Rotating load	8 .....

Flight Instructor in charge of HHO practical training (must be qualified at minimum for HCS level 2 and must have a minimum of 100 HCS cycles). **maximum 2 persons.**Name: ..... Licence Nr: Name: ..... Licence Nr: **DAY HCS****Flight instruction DC / min. 10 HCS cycles which of 5 cycles "Human cargo":** (every square is 1 cycle /use codes)

Cycle N°	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ops. equipment:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emerg.Procedures:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**WARNING: NO Human cargo during emerg. proc. tng. Use Human cargo only in conjunction with task specialist training.**

Trainee may perform solo HCS1 with on site supervision

Date: ..... Signature / License N°: .....

**Flight instruction with on site supervision / min. 5 HCS cycles:** (every square is 1 cycle /use codes)

Cycle N°	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ops. equipment:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Trainee is found properly qualified for Daylight Human Cargo Sling Operations (HCS1) without supervision  
The trainee's log book has been endorsed for "HCS level 1"

Date: ..... Signature / License N°: .....

**NIGHT HCS (optional)****NOTE:**

FOCA does not provide an approved training program for NIGHT HELICOPTER HUMAN CARGO SLING OPERATIONS.

These operations are highly hazardous and require above average piloting skills and crew communication as well as perfect planning by an operator. Nerver the less such operations may be described in the Flight operations manual of a particular helicopter company. If such opeations are conducted, the following statement must be entered in the trainee's logbook and signed by the chiefpilot.

**The trainee has received adequate instruction in night helicopter Human Cargo Sling operations and is found competent to perform HCS level 1 at night.****Total Helicopter Flight experience:**☐

1'000h&lt;HEL&lt;3'000h

☐

3'000h&lt;HEL&lt;5'000h

☐

HEL&gt;5'000h

**Remarks:**

TOTAL TIME HCS1: ..... N° of cycles HCS1: .....