





Transport of external loads with helicopters "Level 2" 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:			
Tal Princets	Tal Mahila:	Form			
Tel Privat:	. Tel Mobile:	Fax:			
Change of address (indicate new address)	oui / <i>ja</i>	E-Mail:			
Zip code / City:		Street:			
Pilot in charge of theoretical instruction (must have	a minimum of 500h ECS	avnoriones):			
Thot in charge of theoretical instruction (must have		saperience).			
Name:	.First Name:	CH Licence N°:			
EXTERNAL CARGO SLING GROUND INSTRUCTION					
FOM		Nets & bags			
Flight and duty times					
Max. cycles / day		Special Equipment			
Min. and max. fuel		Concrete bucket			
Refueling procedures		Remote hook / swivel hook / Carousel			
Radio communications		Spansets			
Human factors / CRM / nutrition		Steel cables/ chains			
Safety equipment / Operational Briefing		Long lines.			
Pilot / marshaller responsibilities		Load meter / printer			
·		Mirrors			
Flight Manual		Bubble window / vertical refernces			
Limitations		Audio / vibration warning			
Performance / HOGE					
Cargo hook supplement		Emergency / Limitations			
		Flight control stops			
Flight Procedures		TR failure			
Airspeed selection with load		Engine failure / OEI operation			
Flight path selection (3rd party)		Height velocity diagram / exposure time			
Bank / load factor / load drag		Emergency procedures in sling ops			
Load stabilisation techniques / hover & in-flight	nt	Review of sling accidents			
Downwash / Load rotation					
Visual hover reference / vert, horiz		Dangers			
Rotor clearance.		Flights in valleys / cables / wires			
Marshaller Hand signals		Flight over cities / roads / 3rd party			
Environement / Slope / forest, canyon		Airflow / up and downdrafts			
Manual & Electrical load release		Sun / shadow / snow / rain / static electricity			
Decision / exposure time		Settling with power / vortex			
		Emergency load jettison			
Load & Person Preparation		Remarks:			
Vertical loads					
Horizontal loads					
Light, bulky and combined loads					
Minimum requirements before starting prainstruction: - CPL(H) / ATPL(H)		I herewith certify that the trainee has received the required ECS 2 ground instruction and is found competent to begin the practical ECS 2 instruction.			
Type rating completed Min. 10 hours PIC on type of helicopter		Date:			
- ECS 2 Ground instruction completed Marshaller syllabus reviewed		Name:			
- Mini. 500 ECS1 cycles		Signature:			
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FLIGHT INSTRUCTION

CH-Licence N°

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LEVEL 2 LONG LINE

Conditions:

- Maximum cargo weight 1'500 kg
- 1 marshaller (with radio) at pickup point
- 1 marshaller (with radio) at drop off point
- helicopter fitted with cargo mirror / bubble window* *if applicable

VERTICAL REFERENCES

The trainee must be able to perform a stabilized hover flight by means of vertical references without any external cargo attached to the helicopter prior to commencing training with external loads. **DEFINITIONS**

Mission:

One mission is an ECS flight or series of ECS flights, conducted from site A to site B, for a particular customer, on a particular day.

flight from site A to site B with an external load and subsequent return to site A

	A Cycle is a night from site A to site b with an external load and subsequent return to site A.				
Pilot (preferably Flight Instructor) in charge of ECS practical training (must be qualified at minimum for ECS level 1 and 2 and must have a minimum experience of 500 hours ECS). maximum 2 persons.					
Na	ıme: Licence Nr:				
Na	me: Licence Nr:				
	If trainee is qualified for "ECS1 20 m", requirements can be reduced by 50%				
	Flight instruction DC/minimum 3 hours: (every square is 1 hour)				
	Date training started:				
	Cycles DC/minimum 30 cycles: (every square is 1 cycle) should include load types 1 through 5				
Trainee may perform solo ECS2 with on site supervision Date:					
30m	Flight instruction solo with on site supervision / min. 10 missions: (every square is 1 mission)				
G ≤ 3(
SLING <	Cycles solo/minimum 100 cycles (mini. 50 cycles ≥ 25m): (every square is 1 cycle)				
V V	Type of loads (use code in squares)				
10m ≤	1 Concrete bucket				
	2 Vertical load 3 Horizontal load				
	4 Nets / bags 5 Light and bulky load				
	Trainee may perform solo ECS2 under supervision Date:				
	Flight instruction solo under supervision / min 10 missions: (every square is 1 hour)				
	SUPERVISOR NOT REQUIRED ON SITE				
	Trainee may perform solo ECS2 max. 30m Date: Signature / License N°:				
E.	Flight instruction DC/minimum 10 cycles: (every square is 1 cycle) Mirror Vertical ref.				
SLING > 30m	Flight instruction solo under supervision / min 10 missions: (every square is 1 mission)				
SLIN	Trainee is found properly qualified for Long line External Cargo Sling (ECS2) operations without supervision				
	The trainee's logbook has been endorsed for ECS Level 2 Date: Signature / License N°:				
Total Helicopter Flight experience:					
	500h <hel<1000h 1000h<hel<1500h="" 1500h<hel<2000h="" hel="">2000h</hel<1000h>				

TOTAL TIME ECS 2:N° of cycles ECS2: