





CH-Licence N°

Transport of external loads with helicopters "Level 5" 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:		
TURKU	T. () () ()	- .		
Tel Privat:	Tel Mobile:	Fax:		
Change of address (indicate new address)	Oui / <i>ja</i>	E-Mail:		
change of address (maleate new address)	our ju	L Muli		
Zip code / City:		Street:		
Pilot in charge of theoretical instruction (must have a	minimum of 500h ECS e	xperience):		
Name:	First Name:	CH Licence N°:		
EYTERNAL CARGO SLIK	IC CONSTDI	ICTION GROUND INSTRUCTION		
EXTERNAL CARGO SEIN		- TON GROUND INSTRUCTION		
FOM		Guide lines / ropes		
Flight and duty times		Wire stringing		
Max. cycles / day				
Min. and max. fuel		Special Equipment		
Refueling procedures		Remote hook / swivel hook		
Radio communications		Spansets / Steel cables/ chains		
Human factors / CRM / nutrition		Cable drums / winches.		
Safety equipment		Long lines		
Pilot / marshaller responsibilities / Operational		Load meter / printer.		
Thory marshaller responsibilities / Operational	Bricing	Mirrors		
Flight Manual		Bubble window / vertical refernces		
Limitations		Audio / vibration warning		
Performance / HOGE		Addio / Vibration warning		
Cargo hook supplement		Emergency / Limitations		
Cargo Hook supplement				
Flight Procedures		Flight control stops		
		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 construction ops		
Load stabilisation techniques / hover & in-fligh		Review of construction accidents		
Downwash / Load rotation		Dangara		
Visual hover reference / vert, horiz		Dangers		
Rotor clearance		Flights in valleys / cables / wires		
Marshaller Hand signals		Flight over cities / roads / 3rd party		
Manual & Electrical load release		Airflow / up and downdrafts		
Decision / exposure time		Sun / shadow / snow / rain / static electricity		
		Settling with power / vortex		
Load & Person Preparation		Emergency load jettison		
Vertical loads		Remarks:		
Horizontal loads				
Light and bulky loads				
Load guiding devices				
Minimum requirements before starting prainstruction: - CPL(H) / ATPL(H)		I herewith certify that the trainee has received the required ECS 4 ground instruction and is found competent to begin the practical ECS 4 instruction.		
- Mini. 1000h HEL		Data		
- ECS Level 2 or 3 completed		Date:		
- Mini. 5000 ECS cycles		Name		
Min. 10 hours PIC on type of helicopter.		Name:		
- ECS 4 Ground instruction completed				
- Practical load preparation training		Signature:		

FLIGHT INSTRUCTION

External cargo sling , CONSTRUCTION

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LEVEL 4 CONSTRUCTION

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*

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.

	*if applicable	A cycle is a flight from site A to site B with an external load and subsequent return to site A.				
Pile	ot (preferably Flight Instructor) in charge of ECS prac	ctical training (must be qualified at minimum for ECS level 4). maximum 2 persons.				
Na	me:	Licence Nr:				
Na	me:	Licence Nr:				
	Flight instruction solo with on site supervi	ision / min. 3 missions: (every square is 1 mission)				
		Date training started:				
GROUND LEVEL	Cycles / minimum 5 cycles: (every square is 1 cycles) Trainee is found properly qualified for GROUND The trainee's logbook has been endorsed for "E	1 Poles / Pylons 2 Vertical load 3 Horizontal load 4 Avalanche protections 5 Light and bulky load D LEVEL CONSTRUCTION operations without supervision				
	Date:	Signature / License N°:				
AERIAL CONSTRUCTION	Cycles / no minimum required: (every square is: Trainee is found properly qualified for GROUND The trainee's logbook has been endorsed for "EDate:	Date training started:				
WIRE STRINGING / NO CONSTRUCTION REQUIRED						
Flight instruction with on site supervision/minimum 1 mission: (every square is 1 Mission) Trainee is found properly qualified for WIRE STRINGING operations without supervision The trainee's logbook has been endorsed for "ECS Level 4 WIRE" Date: Signature / License N°:						
Total Helicopter Flight experience:						
	1000h <hel<3000h 3000h<hel<5000h<="" td=""><td>5000h<hel<10'000h hel="">10'000h</hel<10'000h></td></hel<3000h>	5000h <hel<10'000h hel="">10'000h</hel<10'000h>				

TOTAL TIME ECS 4:

.....N° of cycles ECS4:.....