



ECS 1

Applicant's Swiss / JAR license Nr: **CH.FCL.39772**

Applicant

Last name: Riva First name: Patrick Date of birth: 14.04.1980
Place of birth: Breitenbach SO Place of origin: Holderbank SO Nationality: CH
Postal code: 6863 City: Besazio Street: Via Civasca 1
Phone/fax home: +41 79 437 38 04 Phone/fax office: -
e-mail: p.riva@icloud.com Signature of applicant: [Signature]

EXTERNAL CARGO SLING GROUND INSTRUCTION

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

Last name: [Signature] First name: Retold License Nr: 17789

FOM

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

Task specialist

Flight Manual

Limitations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Performance / HOGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cargo hook supplement	<input checked="" type="checkbox"/>	<input type="checkbox"/>

HIGE
Fixings

Flight Procedures

Airspeed selection with load	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Flight path selection (3rd party)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bank / load factor / load drag	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Load stabilisation techniques / hover & in-flight	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Downwash / load rotation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Visual hover reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rotor clearance	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Marshaller hand signals	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Environment / slope / forest / canyon	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manual & electrical load release	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Decision / exposure time	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Load & Person Preparation

Vertical loads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Horizontal loads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Light, bulky and combined loads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nets & bags	<input checked="" type="checkbox"/>	<input type="checkbox"/>

heavy load

Minimum requirements before starting practical ECS 1 instruction:

- CPL(H) / ATPL(H)	<input checked="" type="checkbox"/>
- Min 300 hours PIC helicopter	<input checked="" type="checkbox"/>
- Min. 10 hours PIC on type of helicopter	<input checked="" type="checkbox"/>
- Type rating completed	<input checked="" type="checkbox"/>
- ECS ground instruction completed	<input checked="" type="checkbox"/>
- Marshaller syllabus reviewed	<input checked="" type="checkbox"/>

Special Equipment

Concrete bucket / Water bucket	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Load lifting attachments (line, net, bag, IBC, FIBC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Slings equipment (round sling, chain, shackle, etc)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Load lifting means (cargo hook, remote hook, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Load meter / printer	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mirror	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bubble window / vertical reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Audio / vibration warning	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Emergency / Limitations

Flight control stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TR failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine failure / OEI operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height velocity diagram / exposure time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Emergency procedures in sling ops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Review of sling ops. accidents	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Flight tactics / heavy load

Dangers

Flights in valleys / cables / wires	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Flight over cities / roads / 3rd party	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Airflow / up and downdrafts	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sun / shadow / snow / rain / static electricity	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Settling with power / vortex	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Emergency load jettison	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Remarks:
Gmelligen Recht:
- ED Decision 2014/018/R
- EASA CS-27
- EG NPL 2006/42/EG
- Risk analysis / Measures

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

Date: 24.4.2015 / 25.4.15
Name: E. Reigan / R. Minderwaldt
Signature: [Signature] / [Signature]