Logo

Sailplane Flight Instructor Refresher Seminar

For the recency of the FI(S) rating
according to EASA Part-SFCL

The Swiss Gliding Federation conceived this document using the example documents developed by the FOCA and the already proven instruction programmes of the Federation.



|  |  |
| --- | --- |
| Name of the organisation | Name |
| Address | Address |
| Developed by | SFVS commission instruction, David Leemann |

Copyright ©

Das Copyright des Ausbildungsprogramms/Syllabus in englischer Sprache liegt beim Segelflugverband der Schweiz SFVS inkl. seiner dazugehörenden Dokumente wie Declaration, Sicherheitsrichtlinien, Flugzeugverzeichnis und Flight-Instructor Liste. Sämtliche Inhalte unterliegen u.a. auch aus Gründen der Konsistenz dem Urheberrecht des AeCS/SFVS und seinen eingeschriebenen Mitgliedern als Flugschule des SFVS.

Das Kopieren und die Verwendung der Daten und Inhalten in jeglicher Form durch Dritte, insbesondere für Nichtmitglieder des SFVS und Dritte ist ausdrücklich verboten. Ebenso ist es ausdrücklich nicht gestattet, diese Dokumente einzeln oder als Ganzes oder Einträge daraus in Teilen für den Einsatz in anderen Publikationen, Portalen, Datenbanken oder Webseiten elektronisch oder grafisch zu kopieren oder zu verändern und zu verwerten. Die Bearbeitung in der Originaldatei ist nur der Flugschule gestattet, welche das Dokument vom AeCS/SFVS erhalten hat und dazu ausdrücklich und als Mitglied des SFVS oder lizenzierter Benützer berechtigt ist.

Allf. Ausnahmen bedürfen der ausdrücklichen schriftlichen Zustimmung des Aero-Club der Schweiz und des Segelflugverbands der Schweiz. Durch die Nutzung dieses und seiner parallelen Dokumente anerkennt der auf der Titelseite aufgeführte Nutzer diese Copyrightbestimmungen vollumfänglich.

(Stand Mai 2020)

LoR Log of Revision

LoR REV0 / 26.10.2020

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Issue | Revision (REV) | Changes |
| 26.10.2020 | 1 | 0 | Initial issue |
|  |  |  |  |

LoC List of Effective Chapters

LoC REV0 / 26.10.2020

[LoR REV0 / 26.10.2020](#_Toc55480333)

[LoC REV0 / 26.10.2020](#_Toc55480334)

[CoL REV0 / 26.10.2020](#_Toc55480335)

[ToC REV0 / 26.10.2020](#_Toc55480336)

[LoA REV0 / 26.10.2020](#_Toc55480337)

[Part 1 REV0 / 26.10.2020](#_Toc55480338)

[1.1 REV0 / 26.10.2020](#_Toc55480339)

[1.3 REV0 / 26.10.2020](#_Toc55480340)

[Part 2 REV0 / 26.10.2020](#_Toc55480341)

[2.1 REV0 / 26.10.2020](#_Toc55480342)

[2.2 REV0 / 26.10.2020](#_Toc55480343)

[2.3 REV0 / 26.10.2020](#_Toc55480344)

[2.4 REV0 / 26.10.2020](#_Toc55480345)

[2.5 REV0 / 26.10.2020](#_Toc55480346)

[2.6 REV0 / 26.10.2020](#_Toc55480347)

[2.7 REV0 / 26.10.2020](#_Toc55480348)

[2.8 REV0 / 26.10.2020](#_Toc55480349)

[Part 3 REV0 / 26.10.2020](#_Toc55480350)

[3.1 REV0 / 26.10.2020](#_Toc55480351)

[Part 4 REV0 / 26.10.2020](#_Toc55480352)

[4.1 REV0 / 26.10.2020](#_Toc55480353)

[4.2 REV0 / 26.10.2020](#_Toc55480354)

CoL Compliance List

CoL REV0 / 26.10.2020

|  |  |
| --- | --- |
| Reference | Chapter |
| SFCL.360 | Chapter 2 |

LEFT BLANK

ToC Table of Contents

ToC REV0 / 26.10.2020

[1 Participants 1](#_Toc55480355)

[1.1 ATO/DTO Records 1](#_Toc55480356)

[1.2 Certificate of completion of the FI(S) refresher seminar (copy for the participant) 3](#_Toc55480357)

[2 Introduction 5](#_Toc55480358)

[2.1 Syllabus 5](#_Toc55480359)

[2.2 The aim and structure of the course 5](#_Toc55480360)

[2.2.1 Course completion 5](#_Toc55480361)

[2.3 Pre-entry requirements 5](#_Toc55480362)

[2.4 Summary of minimum training hours 5](#_Toc55480363)

[2.5 Method of theoretical knowledge training 5](#_Toc55480364)

[2.6 Method of flying training 5](#_Toc55480365)

[2.7 Teaching materials 6](#_Toc55480366)

[2.8 Time scale 6](#_Toc55480367)

[3 Theoretical knowledge training 7](#_Toc55480368)

[3.1 Theoretical knowledge subjects and time scale 7](#_Toc55480369)

[4 Flight instruction 9](#_Toc55480370)

[4.1 Practical exercises 9](#_Toc55480371)

[4.2 Time scale table 9](#_Toc55480372)

LEFT BLANK

LoA List of Abbreviations

LoA REV0 / 26.10.2020

The following abbreviations are within this syllabus:

| Abbreviation | Definition |
| --- | --- |
| (A) | Aeroplane |
| ABB | Abbreviations |
| AD | Administration |
| ADF | Automatic Direction Finding |
| AFM | Aircraft Flight Manual |
| AGL | Above Ground Level |
| ATC | Air Traffic Control |
| ATO | Approved Training Organisation |
| ATPL | Airline Transport pilot Licence |
| BAK | Basic Aviation Knowledge |
| BFCL | Balloon Flight Crew Licensing |
| BPL | Balloon Pilot Licence |
| CDI | Course Deviation Indicator |
| CFI | Chief Flight Instructor |
| CG | Centre of Gravity |
| CoL | Compliance List |
| CP | Cover Page |
| CPL | Commercial Pilot Licence |
| CTR | Control zone |
| DABS | Daily Airspace Bulletin Switzerland |
| DF | Direction Finder |
| DME | Distance Measuring Equipment |
| DTO | Declared Training Organisation |
| EASA | European Aviation Safety Agency |
| ETA | Estimated Time of Arrival |
| etc. | etcetera |
| EU | European Union |
| FCL | Flight Crew Licensing |
| FOCA | Federal Office of Civil Aviation |
| ft | feet |
| G | Gravity acceleration |
| GNSS | Global Navigation Satellite System |
| HT | Head of Training |
| IAS | Indicated Air Speed |
| ICAO | International Civil Aviation Organisation |
| km | kilometre |
| LAPL | Light Aircraft Pilot Licence |
| LoA | Log of Abbreviations |
| LoC | List of Effective Chapters |
| LoR | Log of Revisions |
| NAV | Navigation |
| NDB | Non-Directional Beacon |
| NM | Nautical Mile |
| No | Number |
| NOTAM | Notice To Airmen |
| OBS | Omni Bearing Selector |
| OFP | Operational Flight Plan |
| ORA | Organisation Requirements for Aircrew |
| PAPI | Precision Approach Path Indicator |
| PIC | Pilot In Command |
| POH | Pilot’s Operating Handbook |
| PPAA | Power / Performance / Analyse / Action |
| PPL | Private Pilot Licence |
| QDM | Magnetic bearing to a station |
| R/T | Radiotelephony |
| REV | Revision |
| ROC | Rate of climb |
| RPM | Revolution Per Minute |
| SFCL | Sailplane Flight Crew Licensing |
| SPL | Sailplane Pilot Licence |
| TM | Training Manual |
| TMA | Terminal area |
| TMG | Touring Motor Glider |
| ToC | Table of Content |
| TOC | Top Of Climb |
| TOD | Top Of Descend |
| VAC | Visual Approach Chart |
| VASI | Visual Approach Slope Indicator |
| VClimb | Climb speed |
| VDF | VHF Direction Finding |
| VFR | Visual Flight Rules |
| VHF | Very High Frequency |
| VOR | VHF Omnidirectional Range |
| VX | Best angle of climb speed |
| VY | Best rate of climb speed |

# Participants

Part 1 REV0 / 26.10.2020

## ATO/DTO Records

1.1 REV0 / 26.10.2020

Personal data of participants

|  |  |  |
| --- | --- | --- |
| Last name | First name | Licence number |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Documents to be stored

|  |  |
| --- | --- |
| 🞏 «Chapter 1.1» of this syllabus |  |
| HT / CFI signature: | date: |

LEFT BLANK

## Certificate of completion of the FI(S) refresher seminar (copy for the participant)

1.3 REV0 / 26.10.2020

Personal data

|  |  |
| --- | --- |
| Last name: | First name: |
| Licence number: | Signature: |

Content of the seminar

|  |  |
| --- | --- |
|  | Theory hours |
| Topics for the theoretical knowledge classes | Min 6h total |
| New or current rules or regulations, with emphasis on knowledge of Part-SFCL and operational requirements |  |
| Teaching and learning |  |
| The role of the instructor |  |
| National regulations (as applicable) |  |
| Human factors |  |
| Flight safety, incident and accident prevention |  |
| Threat and error management TEM |  |
| Airmanship |  |
| Legal aspects and enforcement procedures |  |
| Navigational skills including new or current radio navigation aids |  |
| Teaching instrument flying |  |
| Weather related topics including methods of distribution |  |
| Any additional topic selected by the competent authority |  |

Confirmation of the organiser

I certify that the FI(S) refresher seminar was held according to SFCL.360 and AMC1 SFCL.360(a)(1)(i) and that the above-named participant followingly attended and satisfactorily participated during the seminar.

|  |  |
| --- | --- |
| Name: | Licence number: |
| Date: | Signature: |

LEFT BLANK

# Introduction

Part 2 REV0 / 26.10.2020

## Syllabus

2.1 REV0 / 26.10.2020

This syllabus for the FI(S) refresher seminar conforms to the requirements of Part SFCL. The purpose of this syllabus is to provide all the information required, to instructors and to the teachers who are involved in the training course.

The training consists of theoretical and practical knowledge training by an FI(S) who is authorized to instruct toward an FI(S) rating or by some experienced FI(S) currently involved with flying training and with a practical understanding of the revalidation requirements and current instructional techniques, as per AMC1 SFCL.360(a)(1)(i).

## The aim and structure of the course

2.2 REV0 / 26.10.2020

The training course is designed to refresh the instructor’s theoretical knowledge, flying techniques and teaching competences based on established teaching methods.

The aim of the training course is to refresh the instructor’s abilities to teach SPL students how to become proficient in glider pilot operation as well as all the duties and functions connected with the FI(S) role.

During the training course the instructor is made aware of hazardous situations that may occur during training flights and their effect on flight safety. Safety awareness and risk management are a fundamental part of the course.

### Course completion

After attendance and satisfactory participation to the refresher seminar, the participating FI(S) receives a certificate of completion of the seminar (chapter 1.2).

## Pre-entry requirements

2.3 REV0 / 26.10.2020

Before being accepted for training the instructor shall:

* Hold an SPL with FI(S) rating

## Summary of minimum training hours

2.4 REV0 / 26.10.2020

The FI(S) refresher seminar should run for at least 1 day (with a minimum of 6 hours of teaching time), and attendance from participants will be required for the whole duration of the seminar including breakout groups and workshops.

## Method of theoretical knowledge training

2.5 REV0 / 26.10.2020

The theoretical knowledge training consists of all instruction given for the purpose of the training course and includes classroom lessons.

Formal sessions should allow for a presentation time of 45 minutes, with 15 minutes for questions. The use of visual aids is recommended, with interactive video and other teaching aids (where available) for breakout groups and workshops.

## Method of flying training

2.6 REV0 / 26.10.2020

Not applicable

## Teaching materials

2.7 REV0 / 26.10.2020

The following list represents the reference material that covers the subject details shown in the main body of the syllabus:

* Handbook for Pilot Licensing Sailplanes (Roy Jenkins)
* Segelfliegen, Methodik der Grundschulung nach EASA, 2014(Markus Hösli)
* FI Syllabus SFVS
* Lehrmittel TEM
* Teaching and Learning Course Material SFVS
* EASA AMC and GM to Part-SFCL Requirements for sailplane flight crew licensing
* DTO Training handbooks
* DTO Syllabi
* Aircraft flight manual (AFM) / Pilot’s operating handbooks (POH)

## Time scale

2.8 REV0 / 26.10.2020

Not applicable.

# Theoretical knowledge training

Part 3 REV0 / 26.10.2020

## Theoretical knowledge subjects and time scale

3.1 REV0 / 26.10.2020

The content shall be selected under the following topics:

|  |
| --- |
| Topics for the theoretical knowledge classes |
| New or current rules or regulations, with emphasis on knowledge of Part-SFCL and operational requirements |
| Teaching and learning |
| The role of the instructor |
| National regulations (as applicable) |
| Human factors |
| Flight safety, incident and accident prevention |
| Threat and error management TEM |
| Airmanship |
| Legal aspects and enforcement procedures |
| Navigational skills including new or current radio navigation aids |
| Teaching instrument flying |
| Weather related topics including methods of distribution |
| Any additional topic selected by the competent authority |

The effective course contents of any specific seminar will be stated in the certificate of completion.

LEFT BLANK

# Flight instruction

Part 4 REV0 / 26.10.2020

## Practical exercises

4.1 REV0 / 26.10.2020

Not applicable

## Time scale table

4.2 REV0 / 26.10.2020

Not applicable

LEFT BLANK