

## Cirrus BEFA Upgrade Course

(source document: Cirrus Syllabus Suite – Instructor Edition)

**The following 3 stage outline is a guide for BEFA Cirrus instructor pilots when upgrading BEFA Pilots in the Cirrus aircraft for VFR and/or IFR flight. Based on the candidate's previous experience with other aircraft and avionics, flights may be combined with the concurrence of BEFA Operations Officer, Safety Officer, or their delegate.**

**Stage 1:** The first stage of the Transition Training course is designed to introduce the student to normal aircraft operations. Depending on the experience and aptitude of the student, this stage could take relatively little time to complete. However, repeating cross-country legs may be required to solidify basic airmanship and avionics understanding. Avionics utilization is especially important as complex instrument flying will be introduced in the second stage.

**Do not continue to the second stage until reasonable proficiency has been attained with autopilot usage and avionics management.**

### Ground Lesson:

- Introduction to the Cirrus BEFA Upgrade Course
- Computer aided systems discussion (cover all systems in the POH)
- Avionics procedure training in the aircraft or with computer simulator

### Flight 1:

*Example flight plan: VFR KRNT – KCLM*

- Introduction to normal operations
- Introduction to avionics and autopilot procedures
- IFR/VFR cross-country procedures
- Instructor led/demonstration if necessary
- Traffic pattern and normal landing intro/practice

### Flight 2:

*Example flight plan: VFR KRNT – SEPA – KOLM*

- Continue normal ops and cross-country procedures
- Continued avionics/autopilot practice
- Intro to aircraft maneuvering, (slow flight, stalls, configuration changes, trim)
- Traffic pattern and landing practice
- Additional cross-country legs if necessary

**Stage 2:** The second stage incorporates the skills necessary for all aspects of instrument flying, as well as an introduction to maneuvers, special procedures, and abnormal operations. This stage is robust enough to potentially require several additional flights. If the student is not capable of following the progression with sufficient progress, add additional flights or maneuvers to obtain proficiency. Make sure the student is well involved in weather review and IFR flight planning.

### Flight 1

*Example flight plan: VFR SEPA/NEPA  
Full/Stop Taxi back at KRNT*

- Local area flight
- Maneuver review and basic instrument skills
- Emergency: Open door in flight
- Non-standard landing configuration practice

### Flight 2

*Example flight plan:*

*VFR KRNT – MOUNT (TAWS demo) – KOLM*

- Cross-country operations continued
- Inadvertent flight into icing and TAWS escape intro
- Demo leg to introduce abnormal operations
- Landing practice
- [IFR] Introduction to IAPs [KOLM]

### Flight 3

*Example flight plan: VFR KRNT – KPAE or KOLM*

*IFR KRNT – MADEE4 – KBLI – CEVLI - KPAE*

*IFR KRNT – KOLM (MCKEN)*

- Cross-country operations
- Emergency: (PFD, ADC, AHRS, ALT1, ALT2, etc)
- Malfunction that may require a diversion
- [IFR] Normal IFR operations: IAPs, DPs, and STARs
- [IFR] Intro to DME arcs, missed approach, holding

### Flight 4

*Example flight plan:*

*VFR to 17,500 KRNT – KHQM – KRNT*

*IFR to FL240 KRNT JJAMM ELMAA J70 HQM J34 OLM OLM2 KRNT*

- Cross-country operations continued
- Intro to high-altitude flight, if Turbo or O<sub>2</sub> equip'd
- Engine malfunction (potential CAPS simulation)
- [IFR] Introduction to crossing restrictions
- [IFR] Introduction to circling approaches

## **Cirrus BEFA Upgrade Course**

(source document: Cirrus Syllabus Suite – Instructor Edition)

### **Flight 5**

*Example flight plan: IFR new routing and airports*

- [IFR] Cross-country operations continued
- [IFR] Normal IFR operations reviewed

### **Flight 6**

*Example flight plan: IFR new routing and airports*

- [IFR] Cross-country operations continued
- [IFR] Victor or jet airway navigation introduction
- [IFR] Introduction to IAPs with the loss of the PFD

**Flight 7+:** Review weak items at the discretion of the instructor in preparation for checkride.

**Stage 3:** Checkride. Requires SRM legs which requires the pilot to operate without instructor assistance.

Example:

- VFR: KRNT – KCLM Full stop  
KCLM – KCLM touch and goes / area work  
KCLM – KPAE with divert to KRNT
- IFR: KRNT – KCLM RNAV26 (cir or st in) Full stop  
KCLM – KCLM touch and goes / area work  
KCLM – KPAE ILS16 missed to hold  
KPAE – KRNT RNAV 16/34 Full stop

### **Flight 1**

- Cross-country operations emphasizing SRM
- Scenario including abnormal procedures
- [IFR] IAPs determined by the instructor

### **Flight 2**

- Cross-country leg emphasizing SRM
- Scenario including abnormal procedures
- [IFR] IAPs determined by the instructor
- Repeat cross-country legs and tasks as required