

Training Department

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S1 + S2 Training

Welcome to your S2 Training

Welcome to your training in Denmark. We are excited to have you here for your journey of becoming a VATSIM controller. It is an interesting, but lengthy and challenging process that requires a lot from you to reach our required standard.

Therefore take your time now to:

- Watch the Video below
- Read the text AFTER viewing the video

Make sure you understand it, and if you are not up for it to close your training again. This is because we have limited resources so we want to direct them on focused and serious candidates. If, however, you are ready and excited to get started then continue with the video

We try to employ a “*no-wait*” training structure, by employing lots of self study, and student initiative. Your training will therefore go through several phases until you are a fully checked out S2 controller. The whole process will take anywhere from 6-15 months depending on your skills, initiative and work ethics

https://www.youtube.com/embed/Dk_3H527EOY

1st Phase - Preparation

Time to complete: 3-4 months depending on active queue

This phase has started as soon as you requested your training. A vital part of being a controller is knowing the side of a pilot. You cannot become a VATSIM controller, if you have no understanding about the basic knowledge of flying.

To begin that, you need to log onto your plane and fly on the network. We fully expect you to be a proficient pilot by the time you move to the next phase. We don't care if you know how to fly. If you don't have a joystick you can study up offline, and by logging on as observer.

However you must know all the communication and technical skills of a proficient VATSIM pilot. This you can expect to dedicate the first 4 months of your training with.

We will upload pilot documentation and good links in the Training Library to help you on your way.

As you start your next phase of training you will have to pass a pilot test

Also, you can start reading the law documents concerned with training. Documents are will referece throughout the training here: [Law Documents and ATS Instructions](#)

You are also **highly** encouraged to join [Discord](#) and have a talk with the other controllers, to get into the social part of controlling. This gives you the best possible chance for a successful training!

2nd stage - S1+S2 Pre-Training

Time to complete: 1-2 months

After approximately 4-6 months we will start enrolling you in our self-study program for ATC. This is a sizable course which will explain you all the basic ATC skills, video training and observing hours on the network. It is divided into lots of chapters each dealing different aspects.

Your devotion and attention is important, and we have strict demands for this program. this means.

- Sign-up to the course within 72 hours of assignment
- Completion within 2 months
- Activity within running 21 days
- All tests passed satisfactory

This course starts with a pilot test to ensure you are up to the standard of a VATSIM pilot! If you fail you may be delayed another 3 months to properly learn your pilot skills, so make sure to spend your time wisely

Your S1+S2 Pre-Training will conclude with an exam to determine your eligibility for the next step.

3rd stage - S1 Training

Time to complete: 2-3 weeks

You third stage will be S1 training which will allow you to sit on TWR in all Danish airports except EKCH, EKRK and EKRN. This will be a rating which will be on the simulator server (Sweatbox) and must be completed in only 3 sessions, so your preparedness is of the essence, and we reserve the right to re-evaluate your training eligibility if you are not up to a proper standard after the 3 sessions as pr. [VATEUD DTP](#). The training may be done as group sessions by an examiner

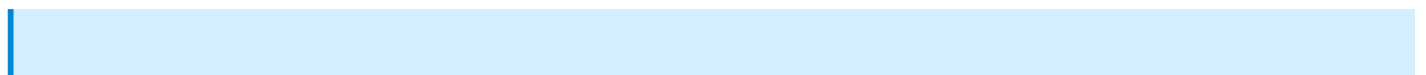
After you finish your S1 training, you will be required to be online for a minimum of **25 hours** to build up experience and ratify your commitment to the organization

4th stage - Tier 1 Endorsement for EKCH Pre-Training

Time to complete: 1-4 weeks

When you have your 25 hours, you can continue by entering the Pre-Training for your:

- Tier 1 endorsement
- S2 rating.



A Tier 1 endorsement is a separate "sub-rating" for airports that are deemed too complex and challenging to sit on with a regular rating. In VATSIM-Scandinavia these are EKCH, ENGM, ESSA, EFHK.

This course will take you through the S1 and S2 specific procedures for the Tier 1 Endorsement for EKCH. The course has similarities with the S1+S2 Pre-training program, however notice following differences

- Course enrolled by your **OWN** initiative **ONLY** after completing 25 hours on other danish airports. Misuse leads to disciplinary actions!
- Completion within 1 month
- Activity within running 14 days
- All tests passed to satisfactory

5th Stage - Tier 1 EKCH_GND training

Time to complete: 1-2 weeks

Hour Requirement: 25 hours on EKBI, EKYT or EKAH

When your Tier 1 EKCH - S1+S2 Pre-Training is completed, You must enter our Discord server and make use of our "Buddy System". For this you write in a dedicated channel, where one of our S2 controllers will take you through the training of your Tier 1 rating for EKCH, on S1 level

You will start by getting the Tier 1 endorsement for EKCH_GND. This relies again heavily on self-study from the Pre-Training and should take no more than 2 sessions to complete. Once completed you are released to sit on EKCH_A_GND, EKCH_D_GND, EKCH_S_GND and EKCH_DEL outside of events (*Meaning NOT at Vectors to Copenhagen*)

6th stage - Tier 1 EKCH_TWR training + S2 Rating

Time to Complete: As long as necessary

Hour Requirement: 25 hours on EKCH_GND or EKCH_DEL

When your "Buddy" release you for your S1 Tier 1 endorsement for EKCH, he will advise the training department that you are ready to continue. You must control 25 hours on EKCH_GND or EKCH_DEL before your checkout, partly while we find a mentor for you for the last part of the progra

7th stage - Examination

Time to complete: 2 hours

When you and your mentor deem that you are ready for checkout you will take the VATEUD S2 theoretical test, and when completed, set up for a final practical examination by one of our examiners. Upon completion you are officially an S2 controller and your training is officially finished.

S1 + S2 Training

S1 Syllabus

Here you can find the S1 Syllabus to learn

It consist of the general proficiencies you must gain, as well as a Three lesson wide lesson plan outlining exactly what we expect of you and what we will train from session to session so you can be as well prepared as possible

[S1 Syllabus & Lesson Plan.pdf](#)

Tier 2 Endorsements - EKRN/AFIS

By reading this training chapter, you will get an understanding of how to control an AFIS airport in the EKDK FIR.

After completion of this chapter, you will need to pass a small test, covering the subjects mentioned in this chapter.

After completion of the test, you will receive the T2 Endorsement for all AFIS stations within EKDK FIR.

You cannot get your S3 rating without completion of this course as some APP airspace provides top-down for AFIS airports.

T2 - AFIS

T2 Endorsement for AFIS operations in EKDK

By reading this training document, you will gain an understanding of how to control an AFIS airport in the EKDK FIR.

After completing this page, you will need to pass a small test, covering the subjects mentioned in this document.

After completion of the test, you will receive the T2 Endorsement for all AFIS stations within EKDK FIR

You cannot get your S3 rating without completion of this course as some APP airspace provides top-down for AFIS airports.

Introduction

In Denmark, we have 7 RMZ//TIA/TIZ(AFIS) AD:

- EKOD - Odense (TIZ/RMZ)
- EKEB - Esbjerg (TIZ/RMZ & TIA/RMZ)
- EKSB - Sønderborg (TIZ/RMZ)
- EKSJ - Sønderborg (TIZ/RMZ)
- EKSN - Sindal (TIZ/RMZ)
- EKVD - Vamdrup (TIZ/RMZ)
- EKST - Stauning (TIZ/RMZ)

The 3 later mentioned do not hold any commercial traffic.

RMZ - Radio Mandatory Zone / TIA - Traffic Information Area / TIZ - Traffic Information Zone
AFIS - Aerodrome Flight Information Service

All airspaces are class G meaning:

- IFR & VFR receive Flight information
- Maximum speed 250 knots IAS
- IFR - Two-way radio communication
- IFR have SSR mode A+C
- No clearance

However, when controlling an RMZ//TIA/TIZ some extra rules apply, these are:

SSR mode A+C for VFR (If fitted) & Two-way radio communication for VFR

The AFIS Station itself does not have radar, hence you will rely only on the information given by the pilots.

To simulate this in Euroscope, you can:

If on an I_TWR, minimize ES, use a static chart for reference, launch a sim for tower view

If providing top-down, XCorelate the tag. You will still see their position, but not any information.

The video in the bottom, showcases how a session in I_TWR could look like for both IFR and VFR

Phraseology

Since all AFIS is class G, you cannot control the planes, therefore a lot of the normal instructions & clearances have to be modified.

Situation	Normal Instruction	AFIS instruction
Landing	"Cleared to land"	"No reported traffic on the runway. (Report vacated)"
ATC clearance	"Cleared to..."	"Copenhagen control clears you to..."
Startup	"Startup approved"	"Startup on own discretion \[Give Departure information\]" ¹
Takeoff	"Cleared for Takeoff"	"No reported traffic in the zone (Report airborne/passing...)"

Taxi	"Taxi Via A & B to holding point runway 24"	"Runway 24 in use, no traffic on the apron. I suggest you to taxi via A & B"
Departure and arrival information		
Departure information should be given to departing aircraft and must contain:		
Runway in use Transition Level Weather QNH		

Example on AFIS Phraseology

Arrival into Sønderborg/EKSB

- Sønderborg information, MMD122 inbound LIBRI planning on ILS RWY32
- MMD122, Sønderborg information. RWY32 in use, TL 030 QNH 1019. No reported traffic in the TIZ, report final. Do you require the latest MET-Report?
- Roger RWY32 TL030 QNH1010, Negative, we have the latest METAR onboard, and will report final. MMD122
- On Final RWY32 MMD122
- MMD122, Roger, No reported traffic on the runway, report vacated.
- Wilco, MMD122
- Runway vacated via B, MMD122
- MMD122, Roger I suggest you taxi to apron, no traffic reported on the apron.
- Taxiing to the Apron via B, MMD122

Departure out of Sønderborg/EKSB

- Sønderborg information, MMD121 request IFR to EKCH
- MMD121, Sønderborg information. Copenhagen Control clears you to EKCH via KOR, climb FL040, level change enroute, squawk 1234. RWY 32 in use. Do you require the MET-Report?
- RWY 32 in use, cleared to EKCH via KOR, FL040, level change en-route, squawk 1234. And affirm we require the met-report. MMD121

- MMD121, roger, readback correct. Automatic report from 1450Z Winds 220 at 8 kt. variable 190 to 250. Visibility 10km. or greater Few clouds at FL120 Temperature -2 dewpoint -5, QNH1019. Report ready for taxi.
- Roger QNH1019, and WILCO, MMD121
- Ready for taxi MMD121
- MMD121, roger no reported traffic on the apron and runway. I suggest you taxi via B, backtrack and lineup RWY32, and report ready for departure.
- Roger, we will taxi via B, backtrack and line up RWY32 and report ready MMD121
- Ready for Departure MMD121
- MMD121, Roger winds 220/08, no reported traffic in the TIZ, report passing 3000 ft.
- Roger, will report passing 3000 ft. MMD121
- Passing 3000 for FL040 MMD121
- MMD121, roger contact Copenhagen on 136.485 - Moin
- Copenhagen on 136.485 MMD121, Moin!

Top-Down coverage

When providing top-down service, it is important to distinguish between when the plane is in controlled airspace and when in Class-G.

As Class G airspace goes up to 3500ft an upper sector may only clear an aircraft to 4000ft.

As the aircraft approaches 4000ft the following must be said:

"C/S, leaving controlled airspace, radar service terminated. Report..."

When giving an inbound aircraft information about an aerodrome, the only thing you dictate is the runway that is in use, all other decisions i.e. approach type, are solely at the discretion of the PIC of the aircraft.

"C/S, Runway 14 in use in Sønderborg. TL030, report expected approach."

Phraseology example:

- MMD122 RWY32 in use in Sønderborg, report expected approach
- RWY32 in use, we are expecting the ILS RWY32, MMD122
- MMD122, Roger, proceed DCT LIBRI, when ready descend FL040. TL in Sønderborg is TL035
- Roger, When ready Descend FL040 DCT LIBRI, TL035, MMD122

- ...
- MMD122, leaving controlled airspace, radar service terminated. QNH in Sønderborg 0988. No reported traffic in the zone, report final RWY32. Do you require the latest MET report?
- Roger, radar service terminated, QNH 0988, will report final RWY32, and negative we have the weather onboard, MMD122
- ...
- On final RWY32 MMD122
- MMD122, roger, no reported traffic on the runway, winds 300/14, report vacated.
- No reported traffic, will report vacated, MMD122
- ...
- Vacated RWY32 via B, MMD122
- MMD122, roger. No reported traffic on the apron. I suggest you taxi to parking via B. Moine
- Roger, we will be using B to parking, MMD122, Moin!

How to handle the traffic

As an AFIS airport doesn't have any radar, the operator must rely solely on the reports from the pilots.

Operation

This video demonstrates both operations and phraseology to use

https://www.youtube.com/embed/kKIPOi_6CrM

Tier 2 Endorsements - EKRN/AFIS

T2 - EKRN / Rønne

Sweatbox scenarios

All sweatbox scenarios for both Billund and Copenhagen.

Documentation regarding the use of sweatbox can be found here:

<https://wiki.vatsim-scandinavia.org/books/software-manuals/page/sweatbox>

Sweatbox scenarios

S2 | Copenhagen

[Copenhagen.zip](#)

Sweatbox scenarios

S1 - Billund

[S1 - Billund.zip](#)

Sweatbox scenarios

S2 - Billund

[Billund.zip](#)

Sweatbox scenarios

S3 - Copenhagen

[Copenhagen.zip](#)

Sweatbox scenarios

S3 - Billund

[Billund.zip](#)

Sweatbox scenarios

C1

[C1.rar](#)