

Austria's two-phase driving licence and the use of alternative cars and FAS

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In Austria, all novice drivers have had to complete a second training phase for 20 years. This applies to all novice drivers in categories B and A since January 1, 2003. The model for the second phase provides that every driver licence holder completes three further modules within the first year of acquiring a driving licence. The accidents of novice drivers fell by 30 percent more than in the other age groups.

Second phase in Austria (three modules): Completing a first perfection drive, a driver safety training including a traffic psychology group discussion and a second perfection drive.

- During the second perfection drive about a year after obtaining the driving licence for the first time, the content of the course is fuel-efficient driving (with the driving instructor) (regulated by law)
- In the driving safety training after about nine months, the training content is driving under border conditions. Intergrated is also a traffic psychology group discussion of young novice drivers (with the traffic psychologist) (regulated by law).
- The training content is currently flexible for the first perfection drive after about three month of ownership of a driving licence. The focus of the training is to correct bad habits. Many driving schools use new categories of vehicles such as electric cars or the learner drivers are instructed in ADAS.

The following ADAS are particularly suitable for testing on the first perfection drive.

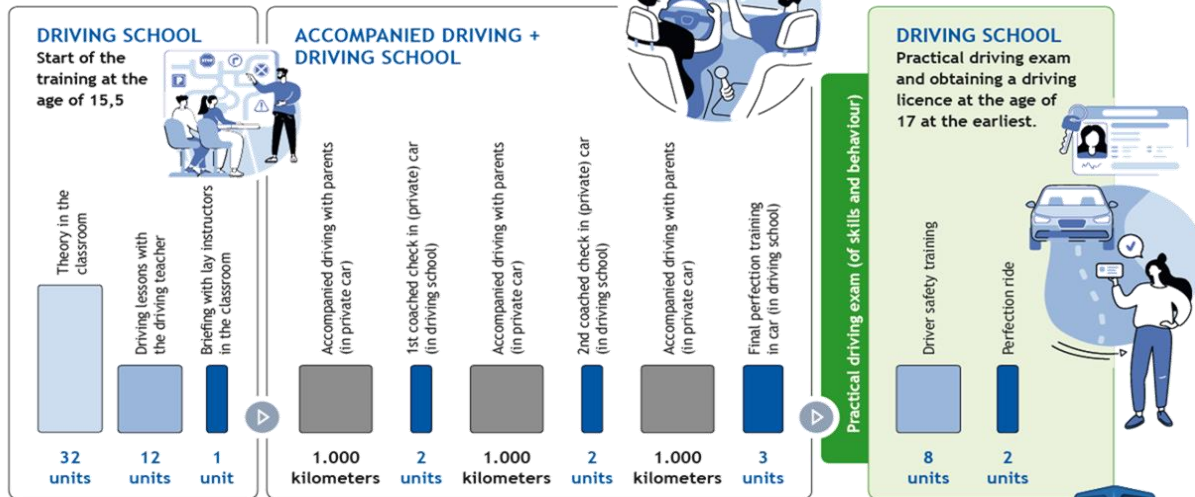
- Automatic Emergency Brake Assist/Emergency Brake Light
- Emergency Lane Departure Warning and Lane Departure Warning
- Intelligent speed assistant
- Detection and emergency braking when reversing

The first perfection drive after obtaining the driving license takes two lessons (one lesson driving and one lesson feedback discussion with the driving instructor).

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DRIVING LICENCE TRAINING IN AUSTRIA

L17-Training and Second Phase Training (Driving alone with 17 years)



PERFECTION RIDES AND DRIVER SAFETY TRAINING

1 st Perfection ride on the road	Driver Safety Training on a closed traing area	2 nd Perfection ride on the road
2-4 month novice driver	3-9 month novice driver	9-12 month novice driver
driving school teacher	driving instructor + traffic psychologist	driving school teacher
bad driving habits addressed safety distance viewing techniques acceleration cruise control	driving skills in borderline situations emergency breaking correcting sliding cars correcting skidding cars group discussion (awareness, distraction)	environmentally conscious and fuel-efficient driving style (two 15 min comparison drives) discussing fuel saving tips: timely upshifting, low rotation driving, skipping gears

ADAS

A recent study by Deublein & Berbatovci (2020)* confirms the importance of driver assistance systems and provides a safety-related assessment for accident prevention as well as an assessment of the relevance of ADAS for (general) driver training:

Driving assistance system	Abbreviatn (engl.)	Safety relevance	Prevalence/use (expected)	Relevance for Driver training
Electron. stability program*	ESP, ESC	hoch	hoch	mittel
Automatic Emergency Brake Assist/Emergency Brake Light*	AEBS	high	high	high
Emergency Lane Departure Warning and Lane Departure Warning*	LKA, LDW	high	high	high
Intelligent speed assistant*	ISA	high	high	high
Detection and emergency braking when reversing*	RD	middle	high	high
Fatigue warning/alertness monitoring*	DDAW	middle	high	middle
Adaptive cruise control	ACC	middle	high	high
lane change assistant	LCA	middle	high	low
parking assistant	IPAS	middle	high	middle
night vision assistant	NV	middle	Not known	middle
traffic sign assistant	TSR	low	low	low
light assistan	AFS		middle	low

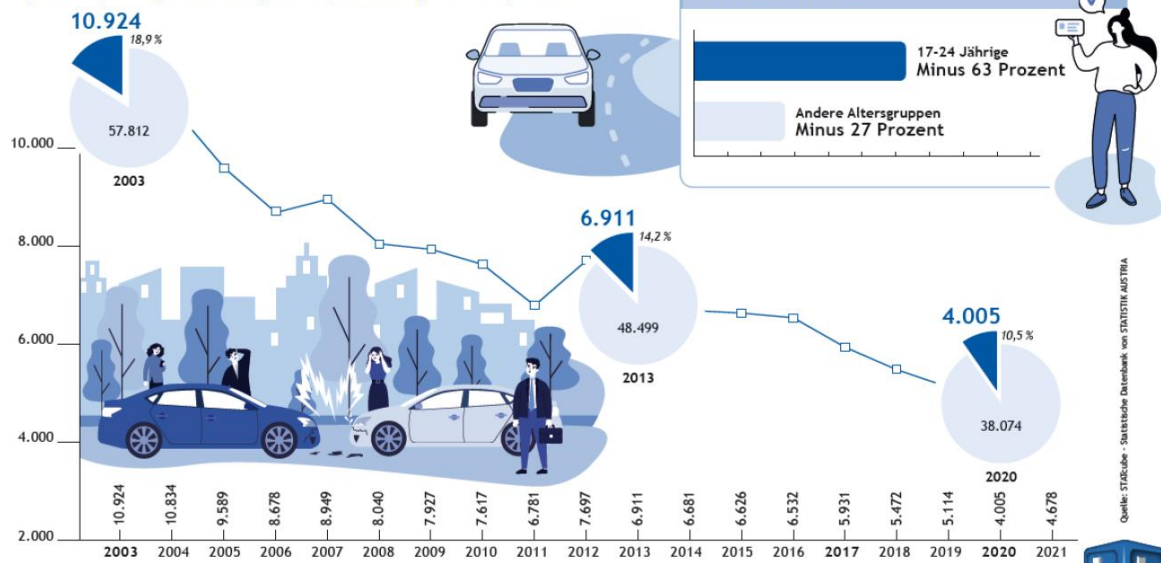
*either already mandatory or due to the new EU regulation 2019/2144 with enforcement 2022 in all newly registered vehicle types and from 2024 in all newly registered vehicles

Source: Deublein, M. & Berbatovci, H. (2020). Automated driving – driver training. technical documentation

2.387, bfu - Advice Center for Accident Prevention, Bern, 2020.

ACCIDENTS WITH CASUALTIES IN AUSTRIA (SINCE INTRODUCTION SECOND PHASE)

Injured young drivers (17-24) in the past 20 years



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