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Air traffic services: definitions and general provisions: key figures

22 figures in 8 groups. Read the cue, say the figure, then check. Each group ends with a recap. Rules change: check the regulation in force.

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Objectives of air traffic services

5 objectives

Collisions, orderly flow, advice and information, and search and rescue notification

Divisions of air traffic services

3 services

ATC service, flight information or advisory service, and alerting service

Parts of the ATC service

3 parts

Area control, approach control and aerodrome control

ATS structure: recap

CUE	FIGURE	DETAIL
Objectives of air traffic services	**5 objectives**	Collisions, orderly flow, advice and information, and search and rescue notification
Divisions of air traffic services	**3 services**	ATC service, flight information or advisory service, and alerting service
Parts of the ATC service	**3 parts**	Area control, approach control and aerodrome control

ATS airspace classes

7 classes

Lettered A to G

Airspace above this level is Class C

FL 195

An EU rule; all airspace above FL 195 is Class C

Maximum intended duration of Class F airspace

3 years

The AIP states the intended duration

Airspace classes: recap

CUE	FIGURE	DETAIL
ATS airspace classes	**7 classes**	Lettered A to G
Airspace above this level is Class C	**FL 195**	An EU rule; all airspace above FL 195 is Class C
Maximum intended duration of Class F airspace	**3 years**	The AIP states the intended duration

Speed limit below the upper boundary

250 kt IAS

VFR in Classes C to G; IFR in Classes D to G

Upper boundary of the speed limit

3 050 m (10 000 ft)

Used when the transition altitude is at or above 10 000 ft altitude

Upper boundary when the transition altitude is lower

FL 100

Replaces 10 000 ft as the upper boundary

Speed limit: recap

CUE	FIGURE	DETAIL
Speed limit below the upper boundary	**250 kt IAS**	VFR in Classes C to G; IFR in Classes D to G
Upper boundary of the speed limit	**3 050 m (10 000 ft)**	Used when the transition altitude is at or above 10 000 ft altitude
Upper boundary when the transition altitude is lower	**FL 100**	Replaces 10 000 ft as the upper boundary

> **250 kt below 10 000 ft. FL 100 if the transition altitude is lower.**

Minimum lower limit of a control area

200 m (700 ft)

Above ground or water, unless the competent authority prescribes otherwise

CTA lower limit linked to a VFR cruising level

900 m (3 000 ft) MSL

GM guidance, above this level

CTR upper limit linked to a VFR cruising level

900 m (3 000 ft) MSL

GM guidance for a CTR outside a CTA, or with an upper limit above the CTA floor

Height that pressure changes should not take a limit below

200 m (700 ft)

Above ground or water, for a CTA lower limit or CTR upper limit

Minimum lateral extent of a CTR

9.3 km (5 NM)

From the aerodrome centre, in the directions from which approaches are made

Airspace dimensions: recap

CUE	FIGURE	DETAIL
Minimum lower limit of a control area	**200 m (700 ft)**	Above ground or water, unless the competent authority prescribes otherwise
CTA lower limit linked to a VFR cruising level	**900 m (3 000 ft) MSL**	GM guidance, above this level
CTR upper limit linked to a VFR cruising level	**900 m (3 000 ft) MSL**	GM guidance for a CTR outside a CTA, or with an upper limit above the CTA floor
Height that pressure changes should not take a limit below	**200 m (700 ft)**	Above ground or water, for a CTA lower limit or CTR upper limit
Minimum lateral extent of a CTR	**9.3 km (5 NM)**	From the aerodrome centre, in the directions from which approaches are made

> **200 m floor. 900 m step. 9.3 km CTR.**

Upper limit for an own-separation portion in Classes D and E

3 050 m (10 000 ft)

Climb or descent, by day in VMC, with a pilot request, the other pilot's agreement and a competent authority prescription

Nominal vertical separation up to and including FL 410.

300 m (1 000 ft)

Between flight levels

Nominal vertical separation above FL 410.

600 m (2 000 ft)

Above FL 410

Separation: recap

CUE	FIGURE	DETAIL
Upper limit for an own-separation portion in Classes D and E	**3 050 m (10 000 ft)**	Climb or descent, by day in VMC, with a pilot request, the other pilot's agreement and a competent authority prescription
Nominal vertical separation up to and including FL 410.	**300 m (1 000 ft)**	Between flight levels
Nominal vertical separation above FL 410.	**600 m (2 000 ft)**	Above FL 410

> **Up to FL 410: 300 m. Above FL 410: 600 m.**

Elements of a conditional clearance

4 elements

Call sign, condition, clearance and a brief repeat of the condition, in this order

Clearances: recap

CUE	FIGURE	DETAIL
Elements of a conditional clearance	**4 elements**	Call sign, condition, clearance and a brief repeat of the condition, in this order

Sustained TAS difference to report at cruising level

19 km/h (10 kt) TAS

Difference from the flight plan

Change in time estimate to notify

2 minutes

For the next reporting point, FIR boundary or destination

Flight plan adherence: recap

CUE	FIGURE	DETAIL
Sustained TAS difference to report at cruising level	**19 km/h (10 kt) TAS**	Difference from the flight plan
Change in time estimate to notify	**2 minutes**	For the next reporting point, FIR boundary or destination

First position report after departure, no designated reporting points

First half hour

Report as soon as possible after the first half hour of flight

Interval of later position reports, no designated reporting points

Every hour

Repeat the position report each hour

Position reports: recap

CUE	FIGURE	DETAIL
First position report after departure, no designated reporting points	**First half hour**	Report as soon as possible after the first half hour of flight
Interval of later position reports, no designated reporting points	**Every hour**	Repeat the position report each hour