Indicators, signalling devices and markers
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QUESTION

Which end of a wind direction indicator faces into the wind?

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QUESTION

Minimum length of a wind direction indicator?

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QUESTION

Minimum diameter at the larger end of a wind direction indicator?

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QUESTION

Height from which a wind direction indicator is clearly visible and understandable?

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ANSWER
3.6 m.

CS ADR-DSN.K.490(c)(1)

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ANSWER
The wide mouth. The wind blows from the mouth towards the tail.

CS ADR-DSN.K.490(c)(2); GM1 ADR-DSN.K.490(b)

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ANSWER
At least 300 m.

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ANSWER
0.9 m.

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QUESTION

How many alternate bands on a two-colour wind direction indicator?

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QUESTION

What does a fully extended wind direction indicator show about wind speed?

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QUESTION

Why is a cone that extends fully at about 15 kt useful to pilots?

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QUESTION

Where is at least one wind direction indicator visible?

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ANSWER

A general idea of speed. It does not give a reading in knots.

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ANSWER

Five bands. The first and last bands use the darker colour.

CS ADR-DSN.K.490(c)(3)(ii); CS ADR-DSN.K.490(c)(3)

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ANSWER

From aircraft in flight, during approach or on the movement area before take-off.

CS ADR-DSN.K.490(b)

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ANSWER

Guidance uses 15 kt to choose a cone. Your crosswind limit is in your aircraft's POH/AFM.

GM1 ADR-DSN.K.490(b)

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QUESTION

Why compare a wind direction indicator with the wind passed by radio?

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QUESTION

Circular band around a wind direction indicator, and its width?

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QUESTION

Guidance: distance at which an illuminated wind direction indicator is usefully read?

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QUESTION

Guidance: maximum distance of a wind direction indicator from the runway threshold, for approach?

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ANSWER

Guidance: 15 m across and 1.2 m wide, preferably white, to help pilots find it.

GM1 ADR-DSN.K.490(c)

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ANSWER

The indicator shows only the local surface wind, which can differ from a wind reported elsewhere.

practice; supported by CS ADR-DSN.K.490(b) siting intent

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ANSWER

600 m.

GM1 ADR-DSN.K.490(d)

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ANSWER

About 1 km, in good visibility.

GM1 ADR-DSN.K.490(d)

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QUESTION

Guidance: ideal position of a wind direction indicator along and beside the runway?

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QUESTION

Guidance: when can one wind direction indicator serve both runway ends?

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QUESTION

Guidance: preferred lateral distance of a wind direction indicator from the runway edge?

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QUESTION

What colour is a taxiway edge marker?

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ANSWER

When the thresholds are less than 1 200 m apart.

GM1 ADR-DSN.K.490(e)

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ANSWER

300 m along the runway from the threshold, and 80 m to the side of the centre line.

GM1 ADR-DSN.K.490(d)

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ANSWER

Retroreflective blue.

CS ADR-DSN.P.825(c)

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ANSWER

No more than about 200 m.

GM1 ADR-DSN.K.490(f)(3); GM1 ADR-DSN.K.490(f)

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QUESTION

What colour is a taxiway centre line marker, and can aircraft wheels pass over it?

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QUESTION

Is a taxiway edge marker designed to be run over?

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QUESTION

Minimum viewing area of a taxiway edge marker?

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QUESTION

Guidance: maximum spacing of taxiway edge markers on a straight section?

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ANSWER

No. It shows where the paved surface ends. Centre line markers are the ones designed to be crossed.

from F55, F61

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ANSWER

Retroreflective green. It is designed to be crossed by aircraft wheels without damage.

CS ADR-DSN.P.830(c); from F55, F61

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ANSWER

60 m. Markers are closer together on curves.

GM1 ADR-DSN.P.825(b)

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ANSWER

150 cm^2.

CS ADR-DSN.P.825(c)(2); CS ADR-DSN.P.825(c)

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QUESTION

Minimum viewing area of a taxiway centre line marker?

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QUESTION

Maximum offset of a taxiway centre line marker from the painted centre line?

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QUESTION

Minimum size of the landing T cross arm and shaft?

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QUESTION

Colour of a landing T?

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ANSWER

0.3 m, where placing it on the marking is impracticable.

CS ADR-DSN.P.830(b)(2); CS ADR-DSN.P.830(b)

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ANSWER

20 cm^2.

CS ADR-DSN.P.830(c)(2); CS ADR-DSN.P.830(c)

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ANSWER

White or orange, whichever contrasts best with the background.

CS ADR-DSN.K.495(b)(3)

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ANSWER

Cross arm: 4 m long, 0.4 m wide. Shaft: 0.4 m wide, running 4 m out from the cross arm, joined at its middle.

CS ADR-DSN.K.495(b)(2), Figure K-1 (EAR-ADR p.644); CS ADR-DSN.K.495(b)(1)–(2), Figure K-1 (EAR-ADR p.644); Annex 14 5.1.2.3, Figure 5-1

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QUESTION

How is a landing T shown at night?

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QUESTION

Which way do you land relative to a landing T?

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QUESTION

Where is a signalling lamp provided?

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QUESTION

Which signals does a signalling lamp produce?

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ANSWER

Parallel to the shaft and towards the cross arm.

SERA Appendix 1, 3.2.5.1

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ANSWER

Illuminated, or outlined by white lights.

CS ADR-DSN.K.495(b)(4)

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ANSWER

Red, green and white.

CS ADR-DSN.K.500(b)(1)

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ANSWER

In the control tower at a controlled aerodrome.

CS ADR-DSN.K.500(a)

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QUESTION

Beam spread of a signalling lamp?

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QUESTION

Minimum coloured light intensity of a signalling lamp for daytime use?

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QUESTION

Can a signalling lamp show amber?

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QUESTION

Guidance: minimum size of a signal area?

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ANSWER
6 000 cd.

CS ADR-DSN.K.500(b)(2)

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ANSWER
Between 1° and 3°, with negligible light beyond 3°.

CS ADR-DSN.K.500(b)(2)

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ANSWER
At least 9 m square, with a white border at least 0.3 m wide.

GM1 ADR-DSN.K.515(a); GM1 ADR-DSN.K.515(c); GM1 ADR-DSN.K.515(a), (c)

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ANSWER
No. It gives red, green and white signals only.

CS ADR-DSN.K.500(b)(1)

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QUESTION

Guidance: elevation above the horizontal at which a signal area is visible in all directions?

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QUESTION

When is a signal area useful?

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QUESTION

What is a marker?

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QUESTION

What is a marking?

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ANSWER

Guidance: at an aerodrome with no tower and no AFIS unit, when visual ground signals are used.

GM1 ADR-DSN.K.505(a); GM1 ADR-DSN.K.505(b)

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ANSWER

Above 10°, when seen from 300 m height.

GM1 ADR-DSN.K.510

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ANSWER

A symbol on the surface of the movement area that conveys aeronautical information.

CS ADR-DSN.A.002

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ANSWER

An object above ground level that indicates an obstacle or delineates a boundary.

CS ADR-DSN.A.002

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QUESTION

Why are markers frangible and low?

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QUESTION

Size of a flat rectangular edge marker on an unpaved runway without lights?

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QUESTION

Maximum height of a conical edge marker on an unpaved runway?

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QUESTION

Maximum interval of edge markers on a snow-covered runway, along each side?

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ANSWER

At least 1 m × 3 m, with the long side parallel to the runway centre line.

CS ADR-DSN.P.810(b)(2); CS ADR-DSN.P.810(b)(1)

PPL Knowledge

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ANSWER

A frangible object minimises harm on impact. Low markers keep clearance for propellers and engine pods.

CS ADR-DSN.P.805

PPL Knowledge

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010-09-02-40 40/40

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ANSWER

100 m.

CS ADR-DSN.P.820(b); CS ADR-DSN.P.820

PPL Knowledge

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ANSWER

0.50 m.

CS ADR-DSN.P.810(b)(2)

PPL Knowledge

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