

Syllabus reference	Syllabus details and associated Learning Objectives	CB-IR(A) and EIR
<b>092 00 00 00</b>	<b>IFR COMMUNICATIONS</b>	
<b>092 01 00 00</b>	<b>DEFINITIONS</b>	
<b>092 01 01 00</b>	<b>Meanings and significance of associated terms</b>	
LO	As for VFR plus terms used in conjunction with approach and holding procedures	x
<b>092 01 02 00</b>	<b>Air Traffic Control abbreviations</b>	
LO	As for VFR plus additional IFR related terms	x
<b>092 01 03 00</b>	<b>Q-code groups commonly used in RTF air-ground communications</b>	
LO	Define Q-code groups commonly used in RTF air to ground communications: — Pressure settings — Directions and bearings	x
LO	State the procedure for obtaining a bearing information in flight	x
<b>092 01 04 00</b>	<b>Categories of messages</b>	
LO	List the categories of messages in order of priority	x
LO	Identify the types of messages appropriate to each category	x
LO	List the priority of a message (given examples of messages to compare)	x
<b>092 02 00 00</b>	<b>GENERAL OPERATING PROCEDURES</b>	
<b>092 02 01 00</b>	<b>Transmission of letters</b>	
LO	State the phonetic alphabet used in radiotelephony	x
LO	Identify the occasions when words should be spelt	x
<b>092 02 02 00</b>	<b>Transmission of numbers (including level information)</b>	

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LO	Describe the method of transmitting numbers – Pronunciation – Single digits, whole hundreds and whole thousands	x
<b>092 02 03 00</b>	<b>Transmission of time</b>	
LO	Describe the ways of transmitting time – Standard time reference (UTC) – Minutes, minutes and hours, when required	x
<b>092 02 04 00</b>	<b>Transmission technique</b>	
LO	Explain the techniques used for making good R/T transmissions	x
<b>092 02 05 00</b>	<b>Standard words and phrases (relevant RTF phraseology included)</b>	
LO	Define the meaning of standard words and phrases	x
LO	Use correct standard phraseology for each phase of IFR flight – Pushback – IFR departure – Airways clearances – Position reporting – Approach procedures – IFR arrivals	x
<b>092 02 06 00</b>	<b>Radiotelephony call signs for aeronautical stations including use of abbreviated call signs</b>	
LO	As for VFR	x
LO	Name the two parts of the call sign of an aeronautical station	x
LO	Identify the call sign suffixes for aeronautical stations	x
LO	Explain when the call sign may be abbreviated to the use of suffix only	x
<b>092 02 07 00</b>	<b>Radiotelephony call signs for aircraft including use of abbreviated call signs</b>	
LO	As for VFR	x
LO	Explain when the suffix 'HEAVY' should be used with an aircraft call sign	x

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LO	Explain the use of the phrase 'Change your call sign to ...'	x
LO	Explain the use of of the phrase 'Revert to flight plan call sign'	x
<b>092 02 08 00</b>	<b>Transfer of communication</b>	
LO	Describe the procedure for transfer of communication – By ground station – By aircraft	x
<b>092 02 09 00</b>	<b>Test procedures including readability scale; establishment of RTF communication</b>	
LO	Explain how to test radio transmission and reception	x
LO	State the readability scale and explain its meaning	x
<b>092 02 10 00</b>	<b>Read back and acknowledgement requirements</b>	
LO	State the requirement to read back ATC route clearances	x
LO	State the requirement to read back clearances related to runway in use	x
LO	State the requirement to read back other clearances including conditional clearances	x
LO	State the requirement to read back data such as runway, SSR codes etc	x
<b>092 02 11 00</b>	<b>Radar procedural phraseology</b>	
LO	Use the correct phraseology for an aircraft receiving a radar service – Radar identification – Radar vectoring – Traffic information and avoidance – SSR procedures	x
<b>092 02 12 00</b>	<b>Level changes and reports</b>	
LO	Use the correct term to describe vertical position In relation to flight level (standard pressure setting) – In relation to Altitude (metres/feet on QNH) – In relation to Height (metres/feet on QFE)	x

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<b>092 03 00 00</b>	<b>ACTION REQUIRED TO BE TAKEN IN CASE OF COMMUNICATION FAILURE</b>	
LO	Describe the action to be taken in communication failure on a IFR flight	x
LO	Describe the action to be taken in case of communication failure on a IFR flight when flying in VMC and the flight will be terminated in VMC	x
LO	Describe the action to be taken in case of communication failure on a IFR flight when flying in IMC	x
<b>092 04 00 00</b>	<b>DISTRESS AND URGENCY PROCEDURES</b>	
<b>092 04 01 00</b>	<b>PAN medical</b>	
LO	Describe the type of flights to which PAN MEDICAL applies	x
LO	List the content of a PAN MEDICAL message in correct sequence	x
<b>092 04 02 00</b>	<b>Distress (definition – frequencies – watch of distress frequencies – distress signal – distress message)</b>	
LO	State the DISTRESS procedures	x
LO	Define DISTRESS	x
LO	Identify the frequencies that should be used by aircraft in DISTRESS	x
LO	Specify the emergency SSR codes that may be used by aircraft, and the meaning of the codes	x
LO	Describe the action to be taken by the station which receives a DISTRESS message	x
LO	Describe the action to be taken by all other stations when a DISTRESS procedure is in progress	x
LO	List the content of a DISTRESS message	x
<b>092 04 03 00</b>	<b>Urgency (definition – frequencies – urgency signal – urgency message)</b>	
LO	State the URGENCY procedures	x
LO	Define URGENCY	x
LO	Identify the frequencies that should be used by aircraft in URGENCY	x
LO	Describe the action to be taken by the station which receives an URGENCY message	x
LO	List the content of an URGENCY signal/message in the correct sequence	x
<b>092 05 00 00</b>	<b>RELEVANT WEATHER INFORMATION TERMS (IFR)</b>	

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<b>092 05 01 00</b>	<b>Aerodrome weather</b>	
LO	As for VFR plus the following	x
LO	Runway visual range	x
LO	Braking action (friction coefficient)	x
<b>092 05 02 00</b>	<b>Weather broadcast</b>	
LO	As for VFR plus the following	x
LO	Explain when aircraft routine meteorological observations should be made	x
LO	Explain when aircraft Special meteorological observations should be made	x
<b>092 06 00 00</b>	<b>GENERAL PRINCIPLES OF VHF PROPAGATION AND ALLOCATION OF FREQUENCIES</b>	
LO	Describe the radio frequency spectrum with particular reference to VHF	x
LO	State the names of the bands into which the radio frequency spectrum is divided	x
LO	Identify the frequency range of the VHF band	x
LO	Name the band normally used for Aeronautical Mobile Service voice communications	x
LO	State the frequency separation allocated between consecutive VHF frequencies	x
LO	Describe the propagation characteristics of radio transmissions in the VHF band	x
LO	Describe the factors which reduce the effective range and quality of radio transmissions	x
LO	State which of these factors apply to the VHF band	x
LO	Calculate the effective range of VHF transmissions assuming no attenuating factors	x
<b>092 07 00 00</b>	<b>MORSE CODE</b>	
LO	Identify radio navigation aids (VOR, DME, NDB, ILS) from their Morse code identifiers	x
LO	SELCAL, TCAS, ACARS phraseology and procedures	x