-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

Hanover House 24 Douglas Street GLASGOW G2 7NG

NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- -Superclass-	006869 RF	92		-Session-1986-87	
-Title-	SYNOPTIC METEOROLOGY (x ¹ / ₂)				
-DESCRIPTION-					
Type and Purpose	A <u>general</u> module $({}^{1}I_{2})$ which enables the student to make a general forecast using a synoptic chart.				
Preferred Entry Level	006869 006869		•	truments and Forecasts mical Meteorology	
Learning Outcomes	The stu	The student should:			
	W	 identify the principal air masses an weather pattern associated with e the British Isles; 			
			y warm, cold and oc ssociated weather;	cluded fronts and know	
		identify the main synoptic patterns and know their associated weather;			
		interpret a synoptic chart to make a general short range forecast.			
Content/ Context	Corres	Corresponding to the Learning Outcomes:			
	W	veathe	sses: formation, pro er pattern for the prin ng the British Isles.	operties, modification and ncipal air masses	
			: definitions, symbo er for warm, cold an		

	3.	Synoptic patterns: definitions, sketch of isobars and associated weather for:				
		(i) (ii) (iii) (iv) (v) (vi)	depression; trough; anticyclone; ridge; col; family of depressions.			
	4.	Forecasting:				
		(i)	drawing of synoptic charts for combinations of isobaric systems;			
		(ii)	identification of air masses, synoptic patterns, strong winds, cloud, fog and precipitation.			
Suggested Learning and Teaching Approaches	Corr	Corresponding to all the Learning Outcomes:				
	with	A mainly didactic approach to the theory, but with discussions centred upon "notable" weather events (preferably within the students' experiences).				
	sync indiv	Daily discussion of the weather situation in relation to the synoptic chart and TV radio forecasts. If possible individual students or groups should take it in turn to give the weather forecast each day.				
		Audio-Visual material such as films, video and model depressions should be used.				
Assessment Procedures	Corr	Corresponding to Learning Outcomes 1-4 inclusive:				
	this shor ques the p rang	The student should be shown a synoptic chart and from this should be required to produce a reasoned general short range forecast and to justify it in the face of oral questioning by the tutor. Satisfactory performance will be the production of a reasoned, justified general short range forecast on three separate occasions. Each synoptic chart used should contain different information.				

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