-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

Hanover House 24 Douglas Street GLASGOW G2 7NG

NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number-	0064	318 -Session-1986-87	
-Superclass-	XL		
-Title-	PRINTED CIRCUIT TRACKING AND ARTWORK (x ¹ / ₂)		
-DESCRIPTION-			
Type and Purpose design.	A <u>specialist</u> module (¹ / ₂) intended to introduce the principles and accepted practices of art-work		
Preferred Entry Level	Standard Grade Science at Grade 5 or better.		
Learning Outcomes	The student should:		
	1.	know the fundamental disciplines of artwork preparation;	
	2.	be able to select artwork symbols and tape from manufacturers' data;	
	3.	be able to apply pads, tapes and conductors onto base materials.	
Content/ Context	Corresponding to the Learning Outcomes:		
	1.	determination of optional artwork scale by a minimum spacing criteria, positional accuracy of pads, conductors and components.	
	2.	appropriate symbols to be taken from British and military standards. Artwork tape to be selected from graphs and tables of information. Symbols, pads and DIL patterns to satisfy the designer's specification.	
	3.	base materials to include glass, perspex and acrylics. Use to be made of appropriate coloured tapes.	

Suggested Learning and Teaching Approaches	It is expected that part of the learning will be normally undertaken in an electrical/electronic laboratory environment. Ideally, parts of the module may be taught in a clean, dust free area. Draughting tables should be used for work design and taping should normally be well lit, and ergonomically stable as a large proportion of the module time will be spent in the artwork area.			
	Appropriate drawing instruments, scalpels, and scissors will normally be required. Emphasis must be placed on the safety aspects when using sharp and potentially hazardous instruments.			
Assessment Procedures	All le	arning outcomes must be validly assessed.		
	The student must be informed of the tasks which contribute to summative assessment. Any unsatisfactory aspects of performance should, if possible, be discussed with the student as and when they arise.			
	Acceptable performance in the module will be satisfactory achievement of the performance criteria specified for each learning outcome.			
	The following abbreviations are used below:			
	LO IA PC	Learning Outcome Instrument of Assessment Performance Criteria		
	LO1	IA Short answer item test.		
	PC	The student displays adequate knowledge of the content.		
	LO2	IA Assembled artwork.		
	PC	The student produces the artwork which is:		
	(a)	laid out as recommended;		
	(b)	neat and accurate.		
	LO3	IA Manufactured artefact.		
	PC	The student assembles an artefact in which the:		
	(a)	functional dimensions are within specified tolerances;		
	(b)	quality is comparable with an agreed exemplar.		