

**CARIBBEAN EXAMINATIONS COUNCIL
SCHOOL-BASED ASSESSMENT
MARK SCHEME**

SUBJECT: TECHNICAL DRAWING

PROFICIENCY: TECHNICAL

YEAR: **CENTRE #:**

CANDIDATE #: **TERRITORY:**

NAME OF TEACHER:

PRESENTATION /ORGANISATION OF PORTFOLIO

SECTION 1: FUNDAMENTALS OF TECHNICAL DRAWING

KNOWLEDGE	MARKS		APPLICATION	MARKS		PRACTICAL ABILITY	MARKS	
		Max			Max			Max
Knowledge of: <ul style="list-style-type: none"> • Theory of Specific objectives 1A.1 – 1A.10; • 1B.1 and 1B.2. 		4	Application of: <ul style="list-style-type: none"> • Theory of Specific objectives 1A.1 – 1A.10; • 1B.1 and 1B.2. 		4			
SECTION 1 TOTAL MARKS		4			4			0

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SECTION 2A: PLANE GEOMETRY

KNOWLEDGE	MARKS		APPLICATION	MARKS		PRACTICAL ABILITY	MARKS	
		Max			Max			Max
Reproducing given information (for example, views, measurements)		3	<ul style="list-style-type: none"> • Applying correct principles of geometric construction • Line work/linetype 		3	<ul style="list-style-type: none"> • Accuracy of geometric construction • Quality of Line work/line type • Dimensions • Neatness 		3
					3			2
		3			6			9

SECTION 2B: SOLID GEOMETRY

KNOWLEDGE	MARKS		APPLICATION	MARKS		PRACTICAL ABILITY	MARKS	
		Max			Max			Max
Reproducing given information (for example, views, measurements)		3	<ul style="list-style-type: none"> • Applying correct principles of geometric construction • Line work/linetype 		3	<ul style="list-style-type: none"> • Accuracy of geometric construction • Quality of Line work/line type • Dimensions • Neatness 		3
					3			2
		3			6			9

KNOWLEDGE	APPLICATION		PRACTICAL ABILITY	
SECTION 2: TOTAL MARKS	6		12	18

Working Drawings		2	Working drawings		4	Working drawings		
			Design		2	<ul style="list-style-type: none"> • Floor Plan • Foundation plan/Roof plan/Details • Elevations • Sectional Elevations 		6
			<ul style="list-style-type: none"> • Functionality • Suitability of materials • Conforming to building standards 		2			4
						Dimensions		4
						Dimensioning		4
			Dimensioning		2	Techniques		
						<ul style="list-style-type: none"> • Line work/Quality • Lettering • Symbols 		4
						Neatness/Presentation		2
								3
SECTION 3: TOTAL MARKS		5			18			53

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SECTION 4: MECHANICAL DRAWING

KNOWLEDGE	MARKS		APPLICATION	MARKS		PRACTICAL ABILITY	MARKS	
		Max			Max			Max
Knowledge of:			Principles of:			Accuracy of:		
<i>Entrepreneurship Opportunities - Small Business Plan:</i> <ul style="list-style-type: none"> • Organisation of Portfolio • Statement of the problem • Conditions • Design principles Statement of the problem 		3	<i>Entrepreneurship Opportunities - Small Business Plan:</i> <ul style="list-style-type: none"> • Organisation of Portfolio • Statement of the problem • Conditions • Design principles 		6	<i>Design</i> <ul style="list-style-type: none"> • Originality • Functionality • Suitability • Conformity to BS International standards/ISO 9000 <i>Design</i> <i>Organisation of Portfolio</i> <ul style="list-style-type: none"> • Completeness of portfolio - (All pieces required from Sections I, II & III or IV) 	7	8

Working Drawings		2	Working Drawings <ul style="list-style-type: none"> • Parts sheet • Pictorial • Sectional view of the assembly • Elevation/Plan of the assembly • Parts list 		4	Working Drawings <ul style="list-style-type: none"> • Parts sheet • Pictorial • Sectional view of the assembly • Elevation/Plan of the assembly • Parts list 		5 3 6 5 2
			Design <ul style="list-style-type: none"> • Function • Safety • Suitability of materials 		2 2 2	Dimensions Dimensioning Techniques		4 2
KNOWLEDGE (cont'd)	MARKS		APPLICATION (cont'd)	MARKS		PRACTICAL ABILITY (cont'd)	MARKS	
	Max			Max			Max	
Knowledge of:			Principles of:			Accuracy of:		
						Line work/Line types <ul style="list-style-type: none"> • Outline • Centre Line • Hidden Line • Section Line 		4
			Dimensioning		2	Text/Print <ul style="list-style-type: none"> • Name of Project • Projection symbols 		2 2
						Neatness/CAD presentation		3
SECTION 4: TOTAL MARKS		5			18			53

