Implementing Criterion-Referenced Assessment in Enhancing Quality in College of Distance Leaning St. Mary's University (CODL-SMU) Shenkute Mamo, St. Mary's University

Introduction

Traditional norm- referenced- assessment method have come into question, and criterion – referenced- assessment has gathered considerable momentum as a method of marking, grading and reporting distance learners 'achievements over the past decade, in undergraduate education. The Queensland University of Technology (QUT) University Academic Board approved a new QUT Assessment Policy in September 2003, which requires a criterion-referenced approach as opposed to a norm-referenced approach to assessment. (Lee D. *et al.* 2002, Burton, K. *et al.* 2005).

In connection with this, QUT Implementation Plan (2002), the QUT School of Law-document highlighted the following:

"In 2004, in accordance with the QUT Implementation Plan, the QUT School of Law raised an awareness of criterion-referenced assessment and implemented CRA in first year core undergraduate law units. The Implementation Plan anticipates that all law units across all year levels will implement CRA between 2005 and 2007. Norm – Referenced Assessment (NRA) distinguished from CRA and why QUT is implementing justified. The authors designed, implemented and evaluated CRA in a first year core undergraduate law unit, LWB143 Legal Research and Writing, in 2004." (Page 2)

Universities in Ethiopia, both public and private, at the present time are inclined to practicing a Criterion-Referenced Assessment (CRA)

In this study of Implementation of Criterion-Referenced Assessment, appropriateness Criteria to the criterion-referenced assessment sheet of Principles of Accounting II course has been analyzed based on the responses of 9 subject experts who are writing modules / teaching the course Principles of Accounting II, currently at SMU. All the criteria are found appropriate as ascertained by the analysis of the experts.

The Strengths of Criterion-referenced Assessment

Norm and Criterion-Referenced Assessment are two distinctly different methods of awarding grades that express quite different values about teaching, learning and student achievement.

Norm -Referenced - Assessment

Norm referenced assessment, or 'grading on the curve' as it is commonly known, places groups of distance learners into predetermined bands of achievements. Distance learners compete for limited numbers of grades within these bands which range between fail and excellent. This form of grading speaks to traditional and rather antiquated notions of 'academic rigor' and 'maintaining standards'. It says very little about the nature or quality of teaching and learning, or the learning outcomes of distance learners. Grading is formulaic and the procedure for calculating a final grade is largely invisible to distance learners (Bond, L.,1996).

Norm-referenced assessment ranks a student's performance against their peers and results in a normal distribution of grades, which is commonly referred to as using a bell curve or "grading on the curve".(Nightingale *et al.*, 1996).

Three problems are identified with norm-referenced assessment (Jackson, S., 2004). The first problem is that if academics use feedback from previous years to inform improvements in their teaching and learning, the success or failure of this cannot be measured by improved student outcomes. The second problem is that distance learners become more competitive and are less likely to work co-operatively with their peers because they perceive that their marks will increase if they hamper other distance learners. The third problem is that it does not recognize that the abilities of distance learners in a cohort in one year may vary from the abilities of distance learners in a cohort in a subsequent year.

Criterion-Referenced Assessment

Criterion-Referenced Assessment has been widely adopted in recent times because it seeks a fairer and more accountable assessment regime than norm referencing. Distance learners are measured against identified standards of achievement rather than being ranked against each other. In Criterion-Referenced Assessment the quality of achievement is not dependent on how well others in the cohort have performed, but on how well the individual student has performed as measured against specific criteria and standards (Linn, R., 2000).

Underlying this grading scheme is a concern for accountability regarding the qualities and achievements of distance learners, transparency and negotiability in the process by which grades are awarded, an acknowledgement of subjectivity and the exercise of professional judgment in marking (Bond, L., 1996).

The QUT Manual of Policies and Procedures (2002) defines criterion-referenced assessment as follows:

Criterion-referenced assessment requires the determination and communication of detailed and clear criteria, each with performance standards, in advance of the assessment. Well-

designed and clearly communicated criteria and performance standards will empower the assessment process with a great deal of objectivity, but of necessity the process must also rely on the professional judgment of those doing the assessing. (Page 3)

According to QUT, *Manual of Policies and Procedures* (2003), the use of criterion-referenced assessment is justified because it increases the validity of the assessment task. Validity measures whether the desired learning outcomes are achieved.

Another benefit is increased reliability of the assessment task. Reliability measures whether different markers mark a piece of work consistently and that the same marker is consistent in their marking. Criterion-referenced assessment also motivates distance learners by providing them with explicit and attainable standards in advance so that they can concentrate on improving their personal best performances rather than competing with their peers (DT Neil & DA Wadley, 1999).

A Criterion and a Standard

A criterion is a characteristic by which quality can be judged and a standard is a statement about the degree of quality to be attained.

In this study of Design and Implementation of Criterion-Referenced Assessment of Principles of Accounting II Course, there are five performance standards presented across the page that is, excellent, very good, good, and unsatisfactory and fail. Each performance standard has a descriptor indicating what is required to perform at a certain standard on a criterion.

The table below gives the simplified five performance standards that correlate to the five grades, percentages and letter grades.

Table 1: Performance standards of the five grades, percentages and letter grades

Performance Standard	Grade	Per cent	Letter Grades
Excellent	4	80 & above.	A+ = 90 & above. A= 80- 89,
Very Good	3	65- 79	B+ = 75- 79, B = 65-74
Good	2	40-64	C+= 60-64, C=45-59, C-=40- 44
Unsatisfactory	1	30-39	D=35 -39, D- =30-34,
Fail	0	<30	F < 30

The design of Criterion-Referenced Assessment sheets is based on 5 Units of Principles of Accounting II Course. The criteria used are more likely to be compatible with the learning objectives of other units and therefore serve as a better example to other accounting academics that plan to change their assessment regime to one of criterion-referenced assessment.

The Criterion-Referenced Assessment sheet used in Principles of Accounting II Course is given on Table 3.

In this example, nineteen assessment criteria are presented in the first column, (on the left hand side of the page). The assessment criteria are aligned with the learning objectives for the unit.

This alignment ensures that the assessment task is valid because the tasks measure the "desired learning outcomes". It also compels the distance learners to concentrate on the learning objectives of a unit.

The Design of Criterion-Referenced Assessment Sheet of Principles of Accounting II Course is constructed for the 5 Units with their corresponding Criteria and the corresponding Performance Standards values.

For example in Unit 1, the First *criterion* is "Identification of the Inventory Items and Costs" for which the learner will be assigned 4 points (Excellent) provided that "All relevant Inventory Items and Costs" are identified and to the extreme, the student will get 0 points (Fail) when "No identification of relevant Inventory Items and Costs". Similar pattern follows for Unit 2, 3, 4 & 5.

Statement of the Problem

The major problem confronting Module writers in the implementing criterion – referenced assessment is setting a clear and precise criteria for the Module they are preparing and informing those criteria for the distance learners before the distance learner begins reading the modules.

The findings of this research titled "Implementing Criterion-Referenced Assessment in Enhancing Quality in College of Distance Leaning St. Mary's University (CODL-SMU)" could serve as benchmark for the way forward.

Objectives of the Study

This study in general bench marked the design and implementation of Criterion-Referenced Assessment in enhancing quality in CODL in general and Accounting Department of CODL - SMU in particular.

The study, more specifically, tried to materialize the design and implementation of Criterion-Referenced Assessment for the course "Principles of Accounting II of the Accounting Department of CODL - SMU

Significance of the Study

- Since a perplexing view is playing a role cornering NRA or CRA or the hybrid of the two,
- Since there is a need to lay a bench mark for CRA, in the under graduate program of CODL, similar to that of SMU under graduate Regular Program
- Considering nowadays scenario of a shift from Norm-Referenced to Criterion Referenced- Assessment in both government and private higher institutions in Ethiopia, in pursuit of enhancing quality in the teaching, learning and assessment, implementing Criterion-Referenced Assessment is a crucial issue.
- Hence, the findings of this study helps distance learners, tutors, departments and other stakeholders in materializing the implementation of Criterion-Referenced Assessment in the pursuit of enhancing quality of teaching-learning and assessment in distance higher learning institutions.

Scope/Delimitation of the Study

This study is delimited to study the implementation of Criterion-Referenced Assessment for the course "Principles of Accounting II" of the Accounting Department of CODL.

Sources of Data

Subject experts of the course Principles of Accounting II from CODL, Testing Center and School of Business Accounting Departments served as sources of primary data.

Sampling

Purposefully 9 subject experts, 5 from CODL, 3 from School of Business Accounting Departments and 1 from the Testing Center are selected in this study.

Methodology

Two experts prepared Test Blueprint for Principles of Accounting II based on Module 1-3 as bases for developing the criterion-referenced assessment sheet of Principles of Accounting II course

Test Blueprint for Principles of Accounting was commented by measurement and evaluation experts from Testing Center and finalized.

Similarly, Performance Standards designed and finalized by collaboration of subject and experts from the Testing Center experts.

Data Collection Instrument

The Likert-type scale was employed to measure the extent to which subject experts ascertain the appropriateness of Criteria to the criterion-referenced assessment sheet of Principles of Accounting II Course.

Subject experts were asked to ascertain the level of appropriateness of the 5 Units of Module 1 & 2 criteria with the criterion-referenced assessment sheet of Principles of Accounting II course.

Subject experts were particularly requested to respond to each statement of four point scale: Very Appropriate (V.A), Appropriate (A), Less Appropriate (L.A) and Not Appropriate (N.A) in each category. All items were worded such that they expressed definite appropriateness. The alternatives were weighted 4,3,2,1 from very appropriate to not appropriate.

Group and peer discussions used for the triangulations of the truth of the information obtained from the Likert Scale and the open ended questions.

Results

Appropriateness of the 5 Units of the 16 criteria of Principles of Accounting II Course with the criterion-referenced assessment sheet of Principles of Accounting II course

Table 3. Experts rating of the criteria to the criterion-referenced assessment sheet of Principles of Accounting II

STATEMENTS	V.A	A	LA	NA						
Appropriateness of the criteria to the criterion-referenced assessment sheet of Principles of										
Accounting II for :-										
Module-I: Accounting for Investing and Financing Activities										
Unit 1- Measuring and Reporting Inventories	3	5	1	0						
Unit 2- Plant Assets-Acquisition, Depreciation and Disposal	3	4	1	1						
Unit 3- Natural Resources and Intangible Assets	5	3	1	0						
Module-II: GAAP and Current Liabilities										
Unit 1: The Foundation of Generally Accepted accounting	3	5	1	0						
Principles (GAAP)										
Unit 2: Current Liabilities and Payroll Accounting	3	5	1	0						
The over all appropriateness	17	22	5	1						

- Concerning the appropriateness of the criteria to the criterion-referenced assessment sheet of Principles of Accounting II course, 8 or 88.89% of the experts ascertained the appropriateness of the criteria for Module 1 Units 1 & 2 and Module 2 Units 1 & 2.
- Similarly, 8 or 77.78 % of the experts leveled the criteria for Module 1 Unit 1 appropriate to the criterion-referenced assessment sheet of Principles of Accounting II course
- In general, 86.67 % of the experts witnessed the appropriateness of the criteria to the criterion-referenced assessment sheet of Principles of Accounting II Course.
- As learned from the open ended questions and focus group discussion, the majority of the experts participated in the study witnessed the appropriateness of the criteria and demanded

for the urgent implementation of the criterion-referenced assessment sheet of Principles of Accounting II Course.

Conclusion

Almost all experts accepted the appropriateness of the criteria to the criterion-referenced assessment sheet of Principles of Accounting II Course.

The Way Beyond 2016

- CODL Department of Accounting should use the criterion-referenced assessment sheet of Principles of Accounting II Course in 2017 1st term to increase the reliability and validity of assessment tasks.
- All tutors of Principles of Accounting II Course in 2017 1st term of the Department of Accounting has to be oriented on the Modules 1&2 units criteria and the corresponding 4 standards (very appropriate, appropriate, less appropriate and not appropriate and the values for each,4,3,2, & 1 respectively) in each category and how to apply the sheet to enhance quality in distance teaching, learning and assessment process.
- Module developers likewise should create a unit on the modules and explain:-
 - What criterion-referenced assessment is,
 - What criteria is by giving example from criterion-referenced assessment sheet of principles of accounting ii course
 - What performance standard is
 - What criterion-referenced assessment sheet of Principles of Accounting II Course look like to their respective distance learners on the criterion and standards under discussion and tell that they are measured against identified standards of achievement of Principles of Accounting II Course sheet rather than being ranked against each other for the summative assessment.
- CODL is expected to refine the criterion-referenced assessment sheets so that they are more explicit, are clear and appropriate.
- The Department has to be engaged in processes that will enhance the shared understanding of the criteria and performance standards between the tutors and accounting distance learners.
- A further goal is to determine how second and later year Module units in the accounting build on the first year core Module accounting unit's criterion-referenced assessment sheets (for example Principles of Accounting II course on Financial Accounting II Course) to reflect the fact that accounting distance learners are incrementally developing their skills as they progress through the accounting degree.
- The experiences of the CODL Department of Accounting of the criteria application to the criterion-referenced assessment sheet need to be applied in other Departments at all courses and at all years.

• Further, study need to be carried out in area of "The Design and Implementation of Criterion-Referenced Assessment in Enhancing Quality in Higher Distance Learning Institutions".

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Table 3. The Criterion-Referenced Assessment Sheet for Principles of Accounting II Module-I- II Course

Module-I .Accounting for Investing and Financing Activities

UNIT 1 Measuring and Reporting Inventories - Criteria #

Criteria #4	Domain & No Items	Excellent 4	Very Good 3	Good 2	Unsatisfact ory 1	Fail 0
Identific ation of the Inventor y Items and Costs	Knowled ge # 1	All relevant concepts of Inventory Items and Costs identified	Majority of relevant concepts of Inventory Items and Costs identified	Some of relevant concepts of Inventory Items and Costs identified	Limited identificatio n of relevant concepts of Inventory Items and Costs	No identificatio n of relevant concepts of Inventory Items and Costs
Assignin g Costs to Inventor y (Cost Flow Assumpt ions)	Knowled ge # 1, Compreh ension #1, Applicati on #1& Analysis #1 Total #4	All relevant concepts of Assigning Costs to Inventory (Cost Flow Assumptio ns) identified	Most of relevant concepts of l Assigning Costs to Inventory (Cost Flow Assumptions) identified	Some of relevant concepts of Assigning Costs to Inventory (Cost Flow Assumptions)i dentified	Limited identificatio n of relevant concepts of Assigning Costs to Inventory (Cost Flow Assumption s)	No identificatio n of relevant concepts of Assigning Costs to Inventory (Cost Flow Assumption s)Reporting
Analyzin g the Effect of Inventor y Errors	Knowled ge # 1	All relevant concepts of Effect of Inventory Errors identified	Persuasive levels of relevant concepts of Effect of Inventory Errors) identified	Superficial levels of relevant concepts of Effect of Inventory Errors identified	Limited identification of the levels of relevant Effect of Inventory Errors	No identificatio n of the levels of relevant Effect of Inventory Errors

Creation	Synthesis	Comprehen	Reasonably	Basic Other	Limited	No
of	#1	sive and	comprehen	Methods of	developmen	development
Other		very	sive and	Inventory	t of Other	of Other
Methods		logical	logical	Valuation	Methods of	Methods of
of		Other	Other	document	Inventory	Inventory
Inventor		Methods of	Methods of	Created	Valuation	Valuation
у		Inventory	Inventory		document	document
Valuatio		Valuation	Valuation			
n		document	document			
		Created	Created			

UNIT 2: Plant Assets-Acquisition, Depreciation and Disposal - Criteria #5

Criteria	Domain &	Excellent	Very Good	Good	Unsatisfacto	Fail
	Items No	4	3	2	ry	0
					1	
Recording	Knowledge #	Comprehensi	Reasonably	Basic	Limited	No
of	1,	ve and very	comprehensi	Acquisition	Acquisition	Acquisition
Acquisition	Comprehensi	logical	ve and	of Plant	of Plant	of Plant
of Plant	on #1,	Acquisition	logical	Assets	Assets	Assets
Assets	Application	of Plant	Acquisition	recorded	recorded	recorded
	#1 Total = 3	Assets	of Plant			
		recorded.	Assets			
			recorded			
Adjusting	Knowledge #	Comprehensi	Reasonably	Basic	Limited	No
Depreciatio	1 &	ve and very	comprehensi	Depreciatio	Entries	Depreciatio
n of Plant	Synthesis #1	logical	ve and	n of Plant	adjusted	n of Plant
Assets	Total = 2	Depreciation	logical	Assets		Assets
		of Plant	Depreciation	adjusted		adjusted
		Assets	of Plant			
		adjusted	Assets			
			adjusted			
	Knowledge #	Comprehensi	Reasonably	Basic	Limited	No Special
Handling of	1 &	ve and very	comprehensi	Special	Special	Consideratio
Special	Comprehensi	logical	ve and	Consideratio	Consideratio	ns in
Consideratio	on #1. Total	Special	logical	ns in	ns in	Computing
ns in	= 2	Consideratio	Special	Computing	Computing	Depreciatio
Computing		ns in	Consideratio	Depreciatio	Depreciation	n handled

Depreciatio		Computing	ns in	n handled	handled	
n		Depreciation	Computing			
		handled	Depreciation			
			handled			
Reversing	Comprehensi	Comprehensi	Reasonably	Basic	Limited	No
Expenditure	on #1	ve and very	and very	Expenditure	Expenditures	Expenditure
s on Plant		logical	logical	s on Plant	on Plant	s on Plant
Assets		Expenditures	Expenditure	Assets	Assets	Assets
		on Plant	s on Plant	translated	translated	translated
		Assets	Assets			
		translated	translated			
Outlining	Knowledge #	Outlines	Outlines	Outlines	Outlines	No Outlines
the Disposal	1	Comprehensi	Reasonably	Basic	Limited	of Disposal
of Plant		ve and very	and very	Disposal of	Disposal of	of Plant
Assets		logical	logica	Plant Assets	Plant Assets	Assets
		Disposal of	Disposal of	developed.	developed.	developed.
		Plant Assets	Plant Assets			
		developed.	developed.			

$\it UNIT~3$: Natural Resources and Intangible Assets - Criteria #3

Criteria	Domain & No Items	Excellent	Very Good	Good	Unsatisfactory	Fail
		4	3	2	1	0
Comprehension of	Knowledge # 1 &	High level of	Persuasive level of	Basic level	Limited	No Comprehension of
Natural Resources-	Comprehension #1.	Comprehension of	Comprehension of the	of	Comprehension	the Natural
Acquisition and	Total #2	Natural Resources-	Natural Resources-	Comprehensi	of the Natural	Resources-Acquisition
Depletion		Acquisition and	Acquisition and	on of	Resources-	and Depletion
		Depletion	Depletion	Natural	Acquisition and	recognized.
		recognized.	recognized.	Resources-	Depletion	
				Acquisition	recognized.	
				and		
				Depletion		
				recognized.		
Translation of the	Knowledge # 1 &	High level of	Persuasive level of	Basic level	Limited	No Comprehension of
Intangible Assets	Comprehension #1	Comprehension of the	Comprehension of the	of	Comprehension	the Intangible Assets
	Total #2	Intangible Assets	Intangible Assets	Comprehensi	of the Intangible	developed.
		developed.	developed.	on of the	Assets	
				Intangible	developed.	
				Assets		
				developed.		

Module-II: GAAP and Current Liabilities
UNIT 1: The Foundation of Generally Accepted Accounting Principles (GAAP)Criteria
#5

Criteria	Domain & No Items	Excellent 4	Very Good 3	Good 2 Basic	Unsatisfacto ry 1	Fail 0
Development of GAAP	Knowledge # 2, Comprehensi on #1, Application #1, Synthesis # 2. Total # 6	High level evaluation of Developme nt of GAAP done.	Persuasive level of evaluation Developme nt of GAAP done.	Identificati on of Developme nt of GAAP done.	Limited Developmen t of GAAP done.	No evaluatio n of Internal control over cash done.
Evaluation of Conceptual Framework for GAAP	Knowledge # 1, Comprehensi on #1, Application #1, Synthesis # 1& Analysis#1 Total #5	High level evaluation of Conceptual Framework for GAAP done.	Persuasive level of evaluation of Conceptual Framework for GAAP done.	Basic Conceptual Framework for GAAP done.	Limited evaluation Conceptual Framework for GAAP done.	No evaluatio n Conceptu al Framewo rk for GAAP done.
Synthesis of Accounting Principles	Knowledge # 2, Comprehensi on #1, Application #1, Synthesis # 2. Total # 6	High level evaluation of Accountin g Principles done.	Persuasive level of evaluation Accountin g Principles done.	Basic Identificati on of Accountin g Principles done.	Limited Accounting Principles done.	No evaluatio n of Accounti ng Principles done.
Comprehensi on of	Knowledge # 2,	High level evaluation	Persuasive level of	Basic Identificati	Limited Constraints	No evaluatio

Constraints	Comprehensi	of	evaluation	on of	on	n of
on	on #1,	Constraints	Constraints	Constraints	Accounting	Constrain
Accounting	Application	on	on	on	done.	ts on
	#1, Synthesis	Accountin	Accountin	Accountin		Accounti
	# 2.	g done.	g done.	g done.		ng done.
	Total # 6					
Synthesis of	Knowledge #	High level	Persuasive	Basic	Limited	No
Financial	2,	evaluation	level of	Identificati	Financial	evaluatio
Statements	Comprehensi	of	evaluation	on of	Statements	n of
and Their	on #1,	Financial	Financial	Financial	and Their	Financial
Elements	Application	Statements	Statements	Statements	Elements	Statement
	#1, Synthesis	and Their	and Their	and Their	done.	s and
	# 2.	Elements	Elements	Elements		Their
	Total # 6	done.	done.	done.		Elements
						done.

UNIT 2: Current Liabilities and Payroll Accounting - Criteria #5

Criteria	Domain &	Excellent	Very	Good	Unsatisfacto	Fail
	No Items	4	Good	2	ry	0
			3		1	
Valuation of	Knowledge #	High	Persuasiv	Basic	Limited	No
Meaning and	2,	level	e level of	Identificatio	evaluation of	evaluatio
Classification	Comprehensi	evaluatio	evaluatio	n of	Valuation of	n of
	on #1,	n of	n of	Valuation	receivables	Valuation
	Application	analysis	analysis	of	done.	of
	#1, Synthesis	of	of	receivables		receivabl
	# 1	Valuation	Valuation	done.		es done.
	Total #5	of	of			
		receivabl	receivabl			
		es done.	es done.			
Use of	Knowledge #	High	Persuasiv	Basic	Limited	No
Current	1,	level	e level of	Identificatio	evaluation of	evaluatio

Liabilities of	Comprehensi	evaluatio	evaluatio	n of Use of	Use of	n of Use
Known	on #1,	n of	n of	receivables	receivables as	of
Amount	Application	analysis	analysis	as a source	a source of	receivabl
	#1, Synthesis	of Use of	of Use of	of cash	cash done.	es as a
	# 1&	receivabl	receivabl	done.		source of
	Analysis#1	es as a	es as a			cash
	Total #5	source of	source of			done.
		cash	cash			
		identified.	done.			
Comprehensi	Knowledge #	High	Persuasiv	Basic	Limited	No
on of	1,	level	e level of	Identificatio	evaluation of	evaluatio
Contingent	Comprehensi	evaluatio	evaluatio	n of	Contingent	n of
Liabilities	on #1,	n of	n of	Contingent	Liabilities	Continge
	Application	Continge	Continge	Liabilities	done.	nt
	#1, Synthesis	nt	nt	done.		Liabilities
	# 1&	Liabilities	Liabilities			done.
	Analysis#1	identified.	done.			
	Total #5					
Application	Knowledge #	High	Persuasiv	Basic	Limited	No
of The	1,	level	e level of	Identificatio	evaluation of	evaluatio
Payroll	Comprehensi	evaluatio	evaluatio	n of Payroll	Payroll	n of
System in an	on #1,	n of	n of	System in	System in an	Payroll
Ethiopian	Application	analysis	analysis	an	Ethiopian	System in
Context	#1, Synthesis	of Payroll	of Payroll	Ethiopian	Context done.	an
	# 1&	System in	System in	Context		Ethiopian
	Analysis#1	an	an	done.		Context
	Total #5	Ethiopian	Ethiopian			done.
		Context	Context			
		identified.	done.			