

KEBS/T020/2019/2020

TO: ALL INTERESTED BIDDERS

REF: ADDENDUM NO. 1 - KEBS/T020/2019/2020: DESIGN AND DEVELOPMENT OF AN INTEGRATED INFORMATION MANAGEMENT (WEB AND MOBILE BASED SYSTEM) FOR KEBS NATIONAL QUALITY INSTITUTE (NQI) AND CERTIFICATION BODY (CB)

The Kenya Bureau of standards wishes to provide the following clarifications to eligible interested bidders:

- 1. National Quality Institute (NQI) User requirements
- 2. Evaluation Criteria

2.0 National Quality Institute (NQI)

- b) User requirements
- ii) Training (In-House and Open)

Additional Requirement under Training: E-Learning technology

Provide a user- friendly environment using E-Learning technology to support learning and performance, using innovative teaching techniques like e-learning, virtual classrooms, or learning via mobile.

User Requirements and Process Flow:

Item	Product Quantity	
1.	Uploading of E-learning modules	More than 100

E-Learning Management System Specifications/ requirements

Item	Description
1.	Clear licensing details
	Intellectual property ownership
	 No. of users allowed, must support more than 1,000 at a time
2.	System must be scalable to accommodate additional functions
3.	User friendly interface – must be easy to navigate and include a site map
4.	Platform supports aids for users with special needs
5.	Support customizable design to suit KEBS branding requirements
6.	Include course management module
7.	Include enrollment management module

details e.g. name, organization, national ID/passport number, unique system-generated II photo and other necessary user identification features 11. Support of timed course duration i.e. enrollment expires after a predefined period 12. Support for segmentation/branching of the courses offered e.g. inclusion of courses with perequisites (certain courses can only be undertaken after having done prerequisites) 13. Supports generation and archiving of Status Report: Feature showing a complete record courses and the list of pursuing courses, wherever applicable, in each profile and learner progress. Learners and tutors must be able to access these status reports at any time 14. Supports notifications e.g. when student course enrollment time is close to expiring, feedback from tutor and other learners 15. Support for cloud based and virtual classroom environments 16. Inclusion of multiple (course specific) online chatrooms/forums accessible by both the learners and tutors 17. Supports Voice and Video Chat 18. Availability of mobile application 19. Support of access across different devices e.g. desktop, tablet, and mobile 20. Availability of Content Management and content authoring/creation tools e.g. graphic & video editing tools, and recording software 21. Supports predefined Access Levels 22. Administrator 23. Support File and Screen sharing for a clear understanding of topics 24. Support Broadcasting Lectures or Classes 25. Support of collaboration and Interactive tools and activities e.g. Collaborative Whiteboard Integration of payment methods (e.g. M-pesa, debit and credit cards) into KEBS payment process with online payment verification 27. Support of SCORM Standards and xAPI to enable content interoperability and integration of payment of discount coupons 28. Support of Assessment methods (quizzes and tests) 19. Inclusion of a repository for storing of questions that can be used by the system in any combination of questions to test different learners. 30. Inclusion of a tutomated marking of	8.	Support of learner self-service including but not limited to registration, access to learning materials, printing of certificates, enquiries, customer feedback
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33.	Support of automated analysis of learners feedback
34.	Support of automated generation of certificates with indexing and secure e-signature.
35.	Generation of recognition badges and CPD points
36.	Provision of search capabilities for content and courses
37.	Support third-party content integrations
38.	Inclusion of a Knowledge repository including notes and other reference materials for learners
39.	Provision of system security structure and backup mechanism
40.	Provision of robust reporting and analytics tools for the admin and tutors (e.g., graphs, charts, standard reports). Include Dashboard to view all Summary and notifications
41.	Inclusion of customer training including System Administrators and Tutors
42.	Inclusion of customer support e.g. helpdesk
43.	Inclusion of customer support policy (response times, escalation policies, and hours of operation)
44.	Inclusion of user support manuals and resources
45.	Links to other KEBS services e.g. NQI Membership Scheme application, KQA registration, KEBS webstore, SMark registration, KEBS HR Norming System and others
46.	Availability of ready learning content for free or purchase an added advantage

E-Learning Process Workflow

a. Content Management process flow

Content management is a critical component of e-learning process. It involves collecting, preparing, publishing and maintenance of content. The flow chart below highlights the key elements of content management, namely technical preparation of content; Extracting, transforming and publishing of content; and Content life cycle management and control.

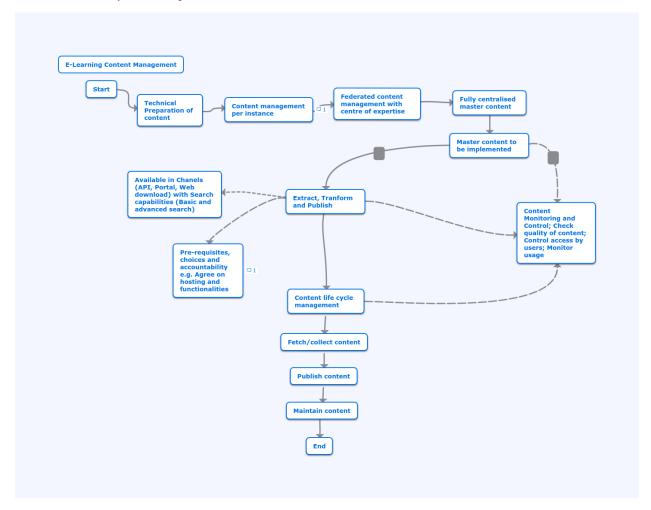


Diagram showing e-learning content management

b. Registration and Training process flow

Registration of participants

- (i) Participant signs up for an account by completing a form with the following details:
 - a. Username
 - b. Password
 - c. Email
 - d. First name
 - e. Surname
 - f. City/town
 - g. Country
 - h. Gender
 - i. Professional background
- (ii) Participant Logs in into the system
- (iii) Participant searches for available courses
- (iv) Participant registers for course/s by completing a form(details)
 - a) Name
 - b) Phone no.
 - c) Postal address
 - d) Postal code
 - e) Email
 - f) Organization/self
- (v) Participant make payment using mpesa, pesapal etc
- (vi) System to generate a unique invoice code and send an alert to the participant via mobile
- (vii) number.
- (viii) Invoice code to be used for completion of the registration process
- (ix) NQI registration officer receives an alert for registered participant
- (x) NQI registration officer sends a course access key to the participant
- (xi) Participant to access material.
- (xii) Participant undertakes the course
- (xiii) If examinable then participant MUST take exam, if pass issue certificate of successful completion. If they fail allow for retake.
- (xiv) If it is a non-examinable course then issue certificate of attendance
- (xv) System auto-generates CPD points and badges on successful completion of course

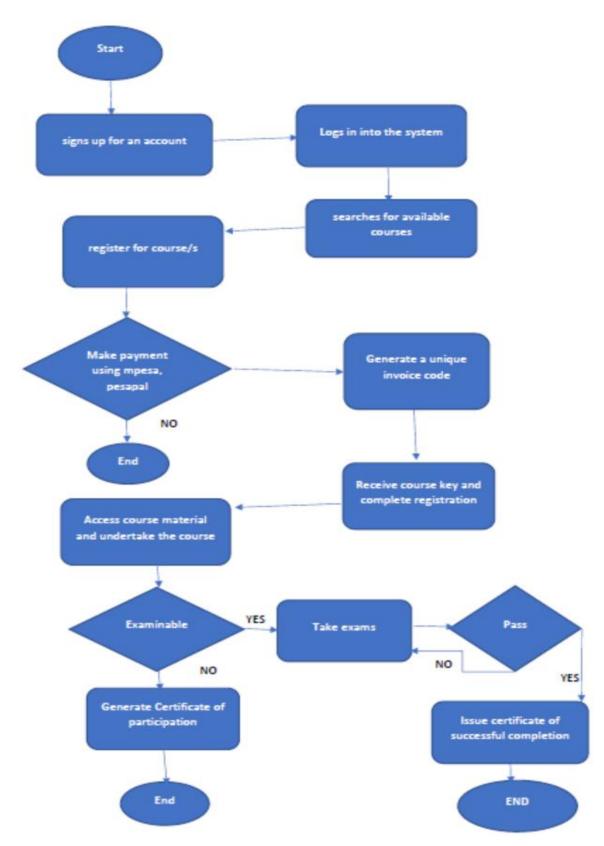


Diagram showing e-learning process workflow

G. EVALUATION CRITERIA

(iii) Proof of concept/Demonstration and presentation (Maximum: 40 points)

The bidder will be required conduct a 45 minutes demonstration based on:

a) One of the two listed relevant and comparable assignments to demonstrate how CB/NQIMS shall be developed and function

OR

Present a prototype/demo/mock-up of the assignment (in this case the bidder is required to demonstrate a proposal of how CB/NQIMS shall be developed and function as understood by the bidder.

b) This is a demonstration should be a web based and a mobile base solution that demonstrate all the capabilities of the anticipated system

No	Crite	eria (the following will be assessed during the demo)	Max Score
1.		erstanding of the KEBS by demonstrating a plan on how to meet the CB/NQI ect objectives and general walk through of the demonstrated application.	2
2.	Unde	rstanding of Assignment Requirements as detailed in the SRS for CB and NQI.	
	a.	Demonstration of implementation of Role based access control for users (Admin, HODs, Managers, Trainers, Administrators, Scheme Managers, Certification Officers, Logistics officers, Auditors, Registered clients, Members and support officers) • The system should have client side on both web and mobile app to enable members to access the client area. • The system should have a dashboard to view critical information at	2
		a glance for different roles.	
	b.	 Demonstration of workflow to manage CB/NQI process and related activities not limited to below listed features: 1) Dashboard with all activities of KEBS CB/NQI processes 2) Provisions of holding and managing documents associated with KEBS CB/NQI activities 3) Should be able to create, track and query a workflow at all stages for Management System Certification, Personnel Certification and Customer Feedback 4) Indentify the clients based on their specific EAC codes 5) Transform all current forms and record generation templates into an online/interactive status 6) Ability to generate e-certificates, e-contracts and e-quotations 7) Allow online comments, recommendations and approval at all stages of the certification process (from application to release of the Certificate) 	20

1	<u> </u>	
	Abiity to generate ad-hoc reports and assign unique codes for every audit	
	audit	
	10) It shall create automatic email notification where necessary	
	11) Ability to support for course and enrolment management module, with	
	ability to create learner's profile with all the necessary details e.g. name,	
	organization, ID number as well as support of self-registration	
	12) Ability to supports browsing through a wide range of courses: Allows	
	learners to choose from courses provided by category, subcategory	
	13) Ability to support of timed course duration i.e. enrolment expires after a	
	predefined period	
	14) Ability to supports notifications e.g. when student course enrolment time	
	is close to expiring, feedback from tutor and other learners	
	, •	
	15) Ability to support for web based and virtual classroom environments	
	16) Inclusion of an online chatroom accessible by both the learners and	
	tutors as well as enhanced interactivity with Collaborative Whiteboard	
	17) Availability of Content Management and content authoring tools	
	18) Ability to support of SCORM Standards and xAPI to enable content	
	interoperability and integration	
	19) Ability to create / upload training content, supporting a wide range of	
	formats (ppt, PDF, mp3, mp4, et al.	
	20) Ability to support variety of assessment methods (quizzes and tests) as	
	well as automated marking of tests	
	21) Inclusion of a repository for storing of questions that can be used by the	
	system in any combination of questions to test different learners.	
	22) Ability to support for collection and analysis of learners' feedback	
	(evaluations, surveys, polls etc.)	
	23) Ability to generate serialized certificates for courses attended,	
	embedded with an e-signature	
	24) Availability of mobile application	
	25) Provision of system security structure and backup mechanism	
	26) Inclusion of user training including System Administrators and Tutors	
	,	
	27) Inclusion of customer support policy (response times, escalation	
	policies, and hours of operation)	
	28) Ability to provide live facilitation for webinars & video conferencing	
	29) Ability to display and manage the NQI training calendar.	
	30) Ability to segment / branch (undertaken pre-requisite?; in-house	
	customized or open course?)	
C.	Demonstration of billing and financial management process	4
	 Ability of the system to let users do training budgets and justification 	
	for expenditures.	
	 Ability to make quotations for clients making service requests 	
	Ability of the system to raise invoices to clients against LSO,	
	acceptable commitment notes and synchronize with ACCPAC/Sage	
	300 system through API.	

	Ability to accept payment against invoices using established rates through mobile cash payment mode and synchronize with ACCPAC/Sage 300 system through API.	
	 d. Demonstration on email communication Ability of the system to create auto email reply on the client side where necessary. 	2
	 The system should be capable of sending email to an individual client or mass mail to a group of clients upon demand. Ability of the system to send auto reminders to clients on relevant information 	
	 e. Demonstration of system integration with other related applications Integration to the CB/NQIMS The system should demonstrate the ability to integrate with existing systems like (ACCPAC/Sage 300, CRM, KEBS Webstore and the website) The system should be able to integrate with mobile cash transfer 	2
	f. Demonstration of system overall performance Optimal system design (light and utilizes limited CPU resources) Scalability (from the end user's perspective) Ability to host more than one thousand (1000) users at any given time Good work flow Good reporting system	2
3.	User Experience Friendly graphic user interface (clean interface meeting KEBS theme)	1
	Usability (intuitive)	1
4.	Technology used a. Web based application (and supports all major browsers), (native or responsive to mobile devices)	1
	b. Mobile App technology (Android, iOS and Windows)	2
	c. Use of current modern technology (coding language, framework and database)	1
	TOTAL	40

NOTE THIS ADDENDUM SHALL BE CONSTRUED TO FORM PART OF THE TENDER DOCUMENT ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME

MANAGING DIRECTOR