

OpenQAsS

Open Source **Q**uality **A**ssurance **S**ystem for
Vocational Education

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Review of the ICT supported QA solutions

List of software applications supporting quality assurance in
IVET and CVET

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List of software applications for QA in Education, IVET, CVET and general support to QA

This report compiles the results of a search of software applications which can provide a support for quality assurance in educational centres (not limited to public educational systems but also in private centres). The list also includes some relevant software applications intended to provide support to general quality management of organizations and which could provide some ideas on this type of systems, which may inspire the system to be generated for the OpenQAsS system.

The record of each application in the list identifies a set of basic data: application, type of licence, URL, type of application, short evaluation or list of characteristics.

Applications for QA in education

Application name	Alexia Calidad
Free or shareware or license	License
Link	http://www.alexiaeducacion.com/que_es_alexia.php?seccion=calidad
Type (QA for education, general QA system)	QA for education
Evaluation	<ul style="list-style-type: none"> • Academic management • Economic and administrative management (billing and sales) • Generating reports and custom Listings • Student tracking • Data mining • Consolidated management for a group of schools • Communication centre: Teacher/Student/Families • Generating official documentation for all regional authorities' requirements • Integrated quality management • Mobility (App Android and IOS) • Integration with tools 2.0
Remarks	A QA module within a general management system for educational centres, mainly implemented in primary and secondary education schools and IVET centres.

Application name	Qualiteasy edu - Agora
Free or shareware or license	License

Link	http://www.qualiteasy.com
Type (QA for education, general QA system)	QA for education
Evaluation	<p>Qualiteasy Agora is oriented to the needs of both public and private schools. Support a Balanced Scorecard of process. Supports ISO 9001, ISO 14001, 22000 TS, 18001</p> <p>Includes:</p> <ul style="list-style-type: none"> • Document and communication management module • Training management module • Audit module • Statistics module • Questionnaires module • Indicators and BSC module • E-learning module • Environmental module
Remarks	<p>Versions in English, German, Catalan and Spanish. Possibility of requesting a demo version for evaluation. It enables a high degree of customization. They declared implementation in primary and secondary education schools, VET centers, universities, educational authorities departments. Compatibility with some mobile devices apart from classical web operation.</p>

Application name	EDC-Unesco
Free or shareware or license	License
Link	http://unesdoc.unesco.org/images/0014/001408/140827e.pdf
Type (QA for education, general QA system)	QA for education
Evaluation	<p>The tool focuses on education for democratic citizenship (EDC) and applies the principles and processes of quality assurance to EDC. This application is focused on the management objectives and indicators.</p>
Remarks	<p>Not exactly an implemented tool but the description of requirements for an educational QA toolkit (with portfolio, SWOT, interview, etc.) which may inspire functionality for the future OpenQASS system: value emerging as a proposal from UNESCO although the reference is from 2005.</p>

Application name	MAMCO
Free or shareware or license	License
Link	http://www.ciced.org/activities/assessment/tools/
Type (QA for education, general QA system)	QA for education
Evaluation	Based on comparative analysis of statistical indicators, the results of assessment of individual achievements and opinion polls, the tool provides: localization of strong and weak aspects of educational system and definition of the factors that initiate problems of educational system. The tool provides: well-founded priorities of the educational system development and directions and practical measures to solve the problems identified. It is in Russian.
Remarks	Just as a reference, it is not possible to access to details of the capacity and services of this Russian system.

Application name	eNQA
Free or shareware or license	License
Link	http://www.enqatech.com/products.html
Type (QA for education, general QA system)	QA for education
Evaluation	eNQA Technologies is a total online management system for the tracking, assessment and verification of vocational qualifications and skills development programmes. It allows training providers to monitor in real time the progress of their skills development programmes and learnerships. The system facilitates easy communication between learners, assessors and verifiers.
Remarks	It is system to provide ICT support for vocational qualification training programs. There is a limited access to details but company declared eNQA supports processes for Government Organisations, Private Companies, Professional Bodies, Training Providers, etc.

Application name	ISOTools
Free or shareware or license	License
Link	http://www.isotools.org/2012/05/31/plataforma-tecnologica-para-la-gestion-de-los-centros-educativos-calidad-educativa/
Type (QA for education, general QA system)	QA for education

Evaluation	<p>Functions:</p> <ul style="list-style-type: none"> • Deployment of the Quality System through Process • Definition and communication of the Strategy and easy schematically through the Strategic Map • Simplification of Document Management • Human Resources • Single management of all the centre indicators: quality, strategy, excellence ... • Systematization of Internal Communications • Problem tracking and Improvement Actions • Solutions evaluation of satisfaction of stakeholders • Assessment Tool Models of Excellence <p>This software has different modules:</p> <ul style="list-style-type: none"> • Software ISO 9001, 14001, OHSAS 18001 and Information Security ISO 27001 • Software BSC balanced scorecard • Software BPM – process management
Remarks	<p>This is a general quality management support system which enables automation of QA processes (reducing bureaucracy in paper format or inefficient set of files) in many types of organizations including educational centres. Possibility of requesting information.</p>

Application name	SIGCE (Management Information System of Educational Quality):
Free or shareware or license	License
Link	http://www.sedbolivar.gov.co/index.php?option=com_content&view=article&id=179&Itemid=371
Type (QA for education, general QA system)	QA for education
Evaluation	<p>This application has three modules</p> <ul style="list-style-type: none"> • PEI (Educational Institute Project): record and manage the plan for educational development • PAM (Improvement Support Plan): maintenance • PMI (Plan for Continuous improvement): self-assessment, development of plan and teacher training)
Remarks	<p>It is a system promoted by a regional authority in Colombia for supporting educational QA regulation and processes. Limited information.</p>

General quality support systems

Application name	Qualiosdoc - Qualios manager
Free or shareware or license	License
Link	http://www.qualios.es/
Type (Quality system, education)	General Quality
Evaluation	Qualios Doc allows you to manage your documents, their validation cycles, their evolution to guarantee each user an up-to-date information. The BPM Qualios Manager software ensures real time control of management reports, warnings and business indicators. The system supports ISO 9001 and 14000 through module Qualios Analyse which supports indicators and BSC in combination with module Qualios Estadísticas and specific forms for data collection on QA.
Remarks	Focus on general business processes management with support of general QA processes and standards, also offering cloud solution and hosting services. A source of inspiration of functionality for supporting QA processes in any organization including educational centres.

Application name	Kmkey Quality
Free or shareware or license	License
Link	http://www.kmkey.com/productos/software_gestion_calidad
Type (QA for education, general QA system)	General QA system
Evaluation	KMKey Quality is quality management software for implementing and maintaining a quality management system (QMS) of any type: ISO 9001, ISO 14001, OHSAS 18001, etc. or a combination of them with an easy integration. KMKey Quality manages and maintains all the quality system documentation
Remarks	Professional QA support software for any organization including educational centres. A source of inspiration of functionality for supporting QA processes in educational centres.

Application name	q-bo.org
Free or shareware or license	License
Link	http://www.q-bo.org/?gclid=CN6i34-qt8QCFceWtAodjRQA7A
Type (QA for education, general QA system)	General QA system
Evaluation	q-bo.org is the tool to manage the continuous improvement of quality and the environment as well as the records management systems mainly for ISO 9001 and ISO 14000.
Remarks	Professional QA support software for any organization including educational centres: a source of inspiration of functionality

Application name	Quality Consulting
Free or shareware or license	License
Link	http://www.oneconsulting.es/softwaredecalidadymedioambiente.htm
Type (QA for education, general QA system)	General QA system
Evaluation	This is a software to support compliance to ISO 9001 and ISO 14001: control of documented procedures and quality manual, records control, non-conformities control, etc. Software quality management as an integrated information management system.
Remarks	Professional QA support software for any organization including educational centres. A source of inspiration of functionality for supporting QA processes in educational centres.

Application name	Egam
Free or shareware or license	License
Link	Business Process Management (ISO, EFQM, etc.): http://www.egambpm.com/
Type (QA for education, general QA system)	General QA system
Evaluation	This is an application to support business processes related to typical standards (ISO 9001, EFQM, etc.) and customized ones with document and process management and CRM.
Remarks	As educational QA processes have to be implemented for OpenQASS system, it may inspire functionality.

Application name	SoftExpert EQM
Free or shareware or license	License
Link	Enterprise quality management: http://www.softexpert.es/catalogos/catalogo-SE-EQM.pdf
Type (QA for education, general QA system)	General QA system
Evaluation	SoftExpert Excellence Suite is a comprehensive integrated enterprise software for Compliance and Performance Excellence supporting a typical PDCA cycle. It also complements and optimizes Enterprise Resource Planning systems. The suite is integrated with the main ERP systems on the market through already available connectors, or through customized connectors developed based on the client's specific needs.
Remarks	An attractive application for any organization: it may inspire functionality for OpenQASS.

Application name	AuraPortal Helium
Free or shareware or license	License
Link	AuraPortal BPM: http://www.auraportal.com/es/normativas-calidad-bpm-workflow-software
Type (QA for education, general QA system)	General QA system
Evaluation	It supports the work with company's regulations (whether mandatory, voluntary or internal) providing the corresponding process management.
Remarks	Business Process Management and workflow support for any organization: provider presents a specific application for education (http://www.auraportal.com/es/bpm-para-educacion-workflow-software).

Application name	VITA
Free or shareware or license	License
Link	http://www.vita-eu.org/uploads/media/03_1_Software_Development_Report.pdf
Type (QA for education, general QA system)	General QA system

Evaluation	The project VITA is the development of an educationally and scientifically standardized method for describing service-oriented competences acquired through informal learning, and to connect it with a rating system that documents the progress in the acquisition of the tested skills. The assessments are carried out in 3 different dimensions: Active, Cognitive, Affective dimension
Remark	The system addresses only a limited part which may be involved in some QA processes: competence assessment gained in informal learning. The description would be useful for technical and managerial decisions on the development of the OpenQASS system.

Application name	EU Quality Assurance
Free or shareware or license	License
Link	http://www.eqavet.eu/qa/tns/monitoring-your-system/introduction.aspx
Type (QA for education, general QA system)	General QA system
Evaluation	The establishment of a European Quality Assurance Reference Framework for VET recommends that the four stages of the quality cycle, the indicators and the indicative descriptors are used to improve further and develop VET systems. This is a Plan Implementation Evaluation Review Cycle Deming Pan- do – Check – Act (PDCA)
Remarks	QA Guide with glossary. Useful resource for the training with teachers and center's administrators and headmasters.

Application name	QUADRAT quality assurance software
Free or shareware or license	License
Link	QUADRAT software for paperless ISO 9001 & ISO 29990 http://quadrat-project.eu/index.php/results/software
Type (QA for education, general QA system)	General QA system
Evaluation	QUADRAT quality assurance software takes advantage of the possibilities given by ICT in order to better organize, manage and control processes of adult learning organizations. It supports quality management in adult learning organizations enabling application of standards (EQAVET, EFQM, CAF, ISO 9001, ISO 29990).

Remarks	Developed in the frame of an LLP Grundtvig project. It is an online solution for adult education for Quality Management. There is an available DEMO in five languages. The DEMO application provides options for uploading documents and to fill out QA forms, but no possibility to query, to analyze the uploaded data. No information on implementation in daily practice of centres.
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Template for the evaluation of software

The most relevant applications will be evaluated using the following template as part of the efforts for output O2 Teachers Requirements against Open QAsS - Study/analysis. This template includes two main parts:

- The basic data of software such as name, manufacturer, general description, etc.
- Analysis of software according two perspectives:
 - Quality of the application
 - Usability.

Datasheet for evaluation software			
Software name:			
Type of license: (freeware, shareware, commercial)		Manufacturer:	
Download link:			
General description:			
Field of application:		Level of Education	
Language development (java, c++, etc.)		Standard compliance	
Country		Available language (English, Spanish)	
System Requirements:			
Management/ maintenance of software (owner, business, government)		Price:	
Connect with other software			

Datasheet for evaluation software advance (Quality perspective)					
	Excellent	well	Normal	Regular	deficient
functionality					
reliability					
usability					
efficiency					
capacity of maintenance					
portability					

Datasheet for evaluation software advance (Use perspective)					
	Excellent	well	Normal	Regular	deficient
effectiveness					
productivity					
satisfaction					
safety					