

UNIVERSITY OF EAST SARAJEVO FACULTY OF MECHANICAL ENGINEERING



Development of an integrated system for business excellence

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Analysis of study programs in the field of QMS offered by Universities in Bosnia and Herzegovina

- * 8 public (state-owned) universities and 35 private universities and colleges in Bosnia and Herzegovina
- ❖ The Agency for Development of Higher Education and Quality Assurance in Bosnia and Herzegovina is established at the state level, in order to implement the accreditation procedure
- The accreditation process involves ministries at different levels (at the entity level for the RS and at the cantonal level of FB&H).
- Only 5 universities accredited by April 2014

Analysis of study programs in the field of QMS offered by Universities in Bosnia and Herzegovina

- ❖ Since 2001, awarenes about QMS was improved significantly; most universities have QMS teams or committees
- Curricula differs between universities
- ❖ The issues of quality management are primarily studied at technical colleges, primarily at the Mechanical Engineering colleges (with some exceptions), then at the Technology colleges, followed by the Economic colleges.
- It is very uncommon to find these topics in the area of social sciences: legal sciences, philosophy, pedagogy, and the like.

Analysis of study programs in the field of QMS offered by Universities in Bosnia and Herzegovina

- The most common courses offered:
 - Quality Management, Quality Control
 - ➤ Integrated Management Systems and Business Excellence
 - Development of Quality Management Systems
 - Standardization and Industrial Regulations
 - Quality and Competitiveness
 - > Project Management, Operations Management
 - Safety at work, Occupational Safety, Waste Management, Quality Management and the Safety of Food and Beverages, International Regulations on Food Quality and Safety

Courses and training in the field of QMS that was provided by training organizations

- Total of 54 courses offered by a number of training organizations, such as:
 - Auditing management system according to ISO19011:2002,
 - > CE Marking,
 - Documentation of management systems
 - > HACCP Hazard Analysis Critical Control Points,
 - ➤ Implementation of QMS ISO 9001:2008 (2 days)
 - Implementation of the ISMS according to ISO/IEC 27001:2005 (12 days in-class training).
 - ➤ Implementation of the requirements of ISO 14001:2004 20 hours

Training organizations in the field of QMS in Bosnia and Herzegovina

- Private companies from both entities:
 - > Agencija QS, Sarajevo
 - > ATIA Consulting, Sarajevo
 - ➤ BH Quality, Tuzla
 - ➢ BHM, Zenica
 - ➢ Bio-Base, Sarajevo,
 - ➤ Consalta, Sarajevo
 - ➤ Mobes Group, Banja Luka
 - ➢ Sertifikacija, Banja Luka
 - > TD Consulting, Mrkonjić Grad
 - ➤ Interquality, Sarajevo

> ...

Certifying organizations in the field of QMS in Bosnia and Herzegovina

- 17 organizations from both entities
- 8 certification companies support connection of consultants and certification bodies (2009)
- Data from 2009 indicate that 23 cases of suspension of the certificate occurred.
- The loss of certification happened due to failure of basic requirements of the standard (3 cases), cancellation (6 cases), bankruptcy or bad privatization (4 cases), and failure to meet financial obligations to the certification company (10 cases).

Basic information about Bosnia and Herzegovina

- Aadministratively divided into two entities: Federation of Bosnia and Herzegovina (F BiH) and Republic of Srpska (RS); the third administrative unit is District Brčko.
- 62 municipalities in Republic of Srpska.
- ❖FB&H consists of 10 cantons.
- Cantons are divided into 79 municipalities.
- City of Brčko is a separate administrative unit.
- ❖ Area: 51209 km², Estimated population: 3,8M
- ❖ GDP per capita: 6709 KM (3440 EUR)

Statistical data of the QMS in enterprises

- The extremely unfavorable political, commercial, economic, and other issues in Bosnia and Herzegovina caused by the recent war, have led to significant retardation in the field of standardization and quality.
- The Institute for Standards, Metrology and Intellectual Property (Institute), and the Institute for Accreditation Bosnia and Herzegovina (BATA) were established in 2001.
- They perform their tasks in accordance with the procedures, policies and guidelines of international and European organizations.

Number of certificates (2014) in Bosnia and Herzegovina and neighboring countries

Standard	В&Н	Serbia	Montenegro	Slovenia	Croatia	Macedonia
ISO 9001	1239	3066	102	1614	2614	482
ISO 14001	174	817	16	420	760	204
ISO 22001	23	172	3	17	108	31
ISO 27001	7	25	0	13	58	5
ISO 50001	0	2	0	8	4	2
ISO 16949	12	18	0	102	19	7
ISO 13485	-	47	-	17	17	3

		What are / will be your business		2009		2014	
/		decisions in terms of quality?	No	%	No	%	
	1.	Certification by new standard ISO 9001 (when adopted)	149	30,53	25	31,25	
	2.	Getting or implementation of ISO 14000	90	18,44	16	20,00	
/	3.	Model of Business Excellence	50	10,25	10	12,5	
	4.	Process renewal	49	10,04	8	10,00	
	5.	Benchmarking	43	8,81	4	5,00	
	6.	TQM model	33	6,76	8	10,00	
	7.	Certification by OHSAS 18001	24	4,92	4	5,00	
	8.	Balanced ScoreCard	22	4,51	3	3,75	
	9.	Using the method of twenty keys	14	2,87	2	2,5	
	10.	Other	14	2,87	2	2,5	

		Why will you decide about the above-		2009		2014	
		rounded business decisions in terms of quality?	No	%	No	%	
/	1.	Technological necessity	43	7,48	5	5,1	
	2.	Owners requirements	54	9,39	11	11,1	
	3.	Environmental requirements	81	14,0 9	17	17,2	
	4.	Wishes of employees	22	3,83	2	2,0	
	5.	Suppliers conditions	23	4,00	2	2,0	
	6.	Requirements of the standard	120	20,8	15	15,2	
	7.	Customers requests	114	19,8 3	23	23,2	
	8.	Management requests	107	18,6 1	21	21,2	
	9.	Other	11	1,91	3	3,0	

	What were / are now / will be the main	2009		2014	
	obstacles / barriers to the establishment of the above-rounded business decisions?	No	%	No	%
1.	Indifference of lower managers	28	8,54	2	2,35
2.	Indifference of employees	21	6,40	2	2,35
3.	Too little staff support in changes	35	10,67	12	14,3
4.	Poor information support	21	6,40	4	4,8
5.	Overburden of management with a regular job	140	42,68	41	48,8
6.	Poor training of employees	23	7,01	10	11,9
7.	Problems with suppliers	16	4,88	4	4,8
8.	Lack of interest of customers	22	6,71	9	10,7
9.	Other	22	6,71	0	0

	What are the main non- financial goals that you have set yourself?	Answers of organizations		Answers of consultants		Answers of cert. bodies	
	nave set yoursen:	No	%	No	%	No	%
1.	shortening time of introducing new products to the market	44	8,71	5	8,33	6	30,00
2.	improve the training of employees	167	33,07	18	30,0	5	25,00
3.	create a work environment- climate that gives a boost	130	25,74	16	26,67	6	30,00
4.	link rewards with success of the organization	60	11,88	2	3,33	1	5,00
5.	develop information skills	92	18,22	14	23,33	2	10,00
6.	other	12	2,38	5	8,33	-	-

Thank you for your atention!