

BUSINESS EXCELLENCE CONSULTING Inc.

Passion for Quality

TRAINING TITLE:

Medical Device Quality System Expert Certification (CERT-008)

OVERVIEW:

Manufacturers must establish and follow quality systems to help ensure that their products consistently meet applicable requirements and specifications. The quality systems for FDA-regulated products (food, drugs, biologics, and medical devices) are known as current good manufacturing practices (cGMP's). The cGMP requirements for medical devices in part 820 (21 CFR part 820) were first authorized by section 520(f) of the Federal Food, Drug, and Cosmetic Act (the act). This certification provides useful and up-to-date information about this critical topic to thousands of engineers, scientists, and manufacturing and quality personnel across the life sciences industries. Evaluating and improving the medical device quality system is the focal point of this certification.

TARGET GROUP FOR THE CONFERENCE:

This certification will benefit manufacturers of FDA-regulated medical devices in documenting their quality systems in order to avoid FDA or other regulatory bodies' inspection findings. It will be a great resource to Quality Assurance, Manufacturing, Regulatory Affairs, Supplier Quality and Quality Control personnel and management within the medical device companies.

LEARNING OBJECTIVES:

- Identify the most important elements of a medical device manufacturer's quality system
- Apply the appropriate tools for each situation faced on a daily basis by a medical device manufacturer's auditor
- Prepare for the ASQ Certified Biomedical Auditor exam

MATERIALS:

Each participant will receive:

- The Certified Biomedical Auditor Primer, published by Quality Council of Indiana
- MS PowerPoint Presentation
- Certificate of Attendance

TRAINING DURATION:

21 contact hours



BEC is authorized by IACET to offer 2.1 CEUs for this program.

FULL attendance to the learning event is mandatory to receive CEUs.

COURSE INSTRUCTOR:

Solmarie Vélez Rivera is a training consultant within the FDA-regulated industries with over 20 years of experience. She has a Bachelor Degree in Industrial Engineering from the University of Puerto Rico at Mayaguez Campus. She also has a Master Degree in Business Administration from University of Phoenix, Puerto Rico Site. Since year 2013, she is fully devoted to consulting under Business Excellence Consulting Inc. focusing on training on ASQ Certified Quality Auditor Academia, Internal Audits Program, Quality Systems Regulations (21 CFR 820), CAPA, Root Cause Analysis, Technical Writing, and other topics. She is an ASQ Certified Quality Auditor and Manager of Quality Organizational Excellence.

Pepe Rodríguez is founder and President of Business Excellence Consulting Inc., a leading Rican training and consulting organization. From 2009-11 he served as a Science Advisor for the FDA San Juan District. He has served as instructor of courses on quality and continuous improvement in several countries with thousands of professionals trained in topics such as Quality Engineering, Six-Sigma, Effective CAPA and Root Cause Analysis, HACCP and Quality Management. Pepe holds a bachelor's degree in biology and PhD in immunology, both from the University of Granada, Spain. He served as a senior member of the American Society of Quality and President of the Puerto Rico (ASQ 1500) section during the period 2003-05. He was secretary from 2005-2012. He is also a member of the Regulatory Affairs Professional Society (RAPS), ISPE, AAMI, and the Parenteral Drug Association (PDA). Pepe is also the author of the best-selling books "CAPA"

for the FDA-Regulated Industry", "Quality Risk Management in the FDA-Regulated Industry", and "The FDA & Worldwide Current Good Manufacturing Practices and Quality System Requirements Guidebook for Finished Pharmaceuticals", published by the American Society for Quality.

Manuel E. Peña-Rodríguez is a process improvement and training consultant within the FDA-regulated textiles. electronics, and industries with more than 20 years of experience in those fields. Since January 2006. he is fully devoted to consulting under Business Excellence Consulting Inc, focusing on training and implementation of Lean Six Sigma initiatives and CAPA / Root Cause Analysis workshops. He also serves as professor in the graduate program in biochemistry at the University of Puerto Rico, Medical Sciences Campus, in San Juan. Manuel received his J.D. degree from the Pontifical Catholic University of Puerto Rico and his master's of engineering in Engineering Management from Cornell University in Ithaca NY. He is also a licensed Professional Engineer registered in Puerto Rico. Manuel is an ASQ Certified Six Sigma Black Belt, Quality & Organizational Manager of Excellence, Quality Engineer, Quality Auditor, Biomedical Auditor, and HACCP Auditor. He is also a Senior member of ASQ and former Chair of the Puerto Rico ASQ Section. He is the author of the book "Statistical Process Control for the FDA-Regulated Industry", published by ASQ Quality Press in April 2013 and co-author (with José Rodríguez-Pérez) of the article "Fail-Safe FMEA" published in the January 2012 edition of the ASQ Quality Progress magazine.





Passion for Quality

Title: Medical Device Quality System Expert Certification (Day 1)

Lunch from 12:00 – 13:00.

Coffee break: 15 min. each during morning and afternoon session. Time schedule are rough estimates and may vary consequently.

Agenda	
8:30 – 9:15	Introduction and Knowledge Assessment Exam
9:15 – 10:15	Medical Device Laws (U.S. & EU, cGMP History)
	FDA overview
	Medical device definitions
	History of medical device regulations
10:15 - 10:30	Break
	Medical Device Laws (U.S. & EU, cGMP History)
10:30 – 11:00	Medical devices classification
	Global medical devices market regulations
	• FDA laws
	EU Medical Device Directive
11:00 – 12:00	Principles of U.S. QSR 21 CFR 820
	FD&C Act overview
	General principles
	• Scope
	• 21 CFR 820 (Subparts A, B, D, M, C, E, F)
12:00 - 13:00	Lunch
13:00 – 15:00	Principles of U.S. QSR 21 CFR 820
	• 21 CFR 820 (Subparts H, O, G)
15:00 – 15:15	Break
15:15 – 16:30	• 21 CFR 820 (Subparts K, L, I)
16:30 – 17:00	• 21 CFR 820 (Subparts J, M, N)





Passion for Quality

Title: Medical Device Quality System Expert Certification (Day 2)

Lunch from 12:00 – 13:00.

Coffee break: 15 min. each during morning and afternoon session. Time schedule are rough estimates and may vary consequently.

Agenda		
	Combination Products (21 CFR Part 4 and EU Guidelines)	
8:30 – 10:15	• Introduction	
	• 21 CFR Part 4	
	Combo products in Europe	
	Drug cGMP elements complementing 21 CFR 820	
10:15 - 10:30	Break	
10:30 - 11:30	Case Study #1: Warning Letter Analysis	
	ISO 13485: Analysis and Comparisons to US FDA QSR	
	• ISO 13485 Overview	
11.20 12.00	• ISO 13485:2012 vs. ISO 13485:2003	
11:30 – 12:00	 Comparison of elements of ISO 13485 with FDA QSR 	
	Auditing under ISO 13485	
	The process approach	
12:00 - 13:00	Lunch	
13:00 – 13:30	FDA Inspections – Enforcement Statistics	
	Inspection objectives	
	FDA inspection reasons / types	
	FDA inspection authority	
	FDA Inspection process	
	Classification of inspection reports	
	Statistics	
13:30 – 15:00	FDA Inspection System – QSIT	
	What is QSIT	
	FDA inspection seven subsystems	
	Inspection approach and strategies	
15:00 – 15:15	Break	
15:15 – 16:15	FDA Inspection System – QSIT	
	How will each subsystem be inspected	
	What is FDA looking for	
16:15 – 17:00	FDA: The Price of Noncompliance	
	 Regulatory actions (483, Warning Letter, Consent Decree, etc.) 	
	Debarment / disqualification lists	
	Example on progressive enforcement	





Passion for Quality

Title: Medical Device Quality System Expert Certification (Day 3)

Lunch from 12:00 – 13:00.

Coffee break: 15 min. each during morning and afternoon session. Time schedule are rough estimates and may vary consequently.

Agenda	
	Auditing Principles
8:30 – 10:15	Auditing fundamentals
0.30 - 10.13	Auditor competencies
	 Audit stages (planning, performance, reporting, follow-up)
10:15 – 10:30	Break
10:30 – 11:30	• Case Study #2: Preparing and Audit Checklist
	Human Factors and Medical Devices
11:30 – 12:00	Human factors at FDA
11.30 – 12.00	Standards and guidelines
	Key safety design concepts
12:00 – 13:00	Lunch
	ISO 14971:2012
	Definitions
	• ISO 14971:2012 vs 2007
13:00 – 14:00	Risk Assessment Process
	Risk Management Process
	Risk Management Process Methods and Tools
	Risk Ranking and Filtering.
	Sterilization and Biocompatibility
	Applicable standards
14:00 – 15:00	Sterilization methods
11.00 13.00	Packaging considerations
	Validations concepts
	Biocompatibility
15:00 – 15:15	Break
15:15 – 17:00	Case Study #3 and Final Exam