

Pharma Validation Engineer Course Syllabus Rev.3 - 16AUG2023

Day 1		
Module	Topics	
Session Kick-Off	• Introductions	
	 Section 1 objectives and expectations 	
Introduction	General Background	
	Relevant regulation review	
	Validation life Cycle approach	
	Change control	
Risk based approach for validation	Risk assessment	
	 Methods for performing risk assessment 	
	 Implications for the product/ process 	
	 Implementation of quality in design 	
Validation Master Plan	Validation policy characterization	
	VMP approach	
	Document scope	
	Validation management	
User Requirements Specification (URS)	 Purpose 	
	Requirements characterization process	
	 Best practices for writing good requirements 	
	Main contents	
	Examples	
Session Wrap-Up	Feedback	







Day 2	
Module	Topics
Commissioning	General Background
	The need for Validation
	Regulatory requirements
	The Commissioning Plan
	Supporting IQ's and OQ's
Design Qualifications	User Requirement Specifications
	Request for Purchase
	Functional Requirements
	Detail Design Specifications
	The DQ work
	 FAT/SAT and Examples (Autoclave case)
Validation Rationale	Key Concepts for Quality
	The V-model
Installation Qualifications	Guidance and regulations
	Testing Installations
	IQ Examples including a Liquid Filling machine

Day 3	
Module	Topics
Operational Qualifications (OQ)	 Definitions, Approaches and Regulations HVAC example Autoclaves and a Fluid Bed Granulator Incubators and Liquid Filling Machine
Performance Qualifications (PQ)	 Temperature Mapping with Stabilization time example PQ Examples for HVAC Autoclave and Liquid Filling Performance Qualification
Requalification's	What triggers a revalidation?The Risk Assessment approachManaging Qualifications
Session Wrap-Up	Feed-back and Certificate distribution



