



COMMISSIONING, QUALIFICATION & VALIDATION (CQV) IN THE PHARMACEUTICAL INDUSTRY

Class Schedule

Weeks	Topics & Dates	Date and Time
1	ICH Q8	Online learning:
		9/2/26 – 23/2/26
	This topic explores ICH Q8 and Quality by Design	
	(QbD) principles, focusing on linking process	Practicum:
	parameters to product quality. It covers design	23 Feb 2026
	space definition, process controls, and material	(Mon) 6.30-9.30 pm
	attributes (APIs, excipients, packaging). Case studies	
	demonstrate QbD applications, while regulatory	Venue: Ngee Ann
	insights guide implementation in drug development and manufacturing for consistent quality.	Polytechnic
	and mandracturing for consistent quality.	
2	ICH Q9	Online learning:
		12/2/26 – 26/2/26
	This topic covers ICH Q9's principles of Quality	
	Risk Management (QRM) in pharma. Participants	Practicum:
	learn risk assessment methodologies, key tools	26 Feb 2026 (Thu)
	(FMEA, HACCP, etc.), and practical integration into	6.30-9.30 pm
	industry and regulatory practices. Through case	
	studies and discussions, attendees gain skills to	Venue: Ngee Ann
	systematically identify, analyze, and mitigate risks to ensure product quality and compliance.	Polytechnic
	to ensure product quality and compliance.	
3	ICH Q10	Online learning:
	-	16/2/26 – 2/3/26
	This topic covers ICH Q10 guidelines on	
	Pharmaceutical Quality Systems (PQS), including	Practicum:
	quality policy, planning, risk management, and	2 Mar 2026 (Mon)
	continuous improvement. It explores regulatory	6.30-9.30 pm
	expectations, change management, and	
	outsourcing controls. Through case studies and discussions, participants learn to implement and	Venue: Ngee Ann
	maintain an effective PQS for compliance and	Polytechnic
	product quality in the pharmaceutical industry.	
	production and production in description.	

4	Equipment and Facility Design (I) & (II)	Online learning: 19/2/26 – 9/3/26
	This topic explores Facility design principles ,	19/2/20 - 9/3/20
	equipment design principles, clean utilities, and	
		Practicum:
	emerging trends and technologies in E&F design.	5 Mar 2026 (Thu)
		and
		9 Mar 2026 (Mon)
		6.30-9.30 pm
		Venue: Ngee Ann
		Polytechnic
4 & 5	Commissioning & Qualification (I)	Online learning:
		26/2/26 – 12/3/26
	This topic covers Commissioning & Qualification	
	principles, including FAT/SAT, DQ/IQ/OQ/PQ, and	Practicum:
	process validation stages. Learn to identify CPPs ,	12 Mar 2026 (Thu)
	CQAs, CDEs, and apply risk-based methodologies	6.30 pm -9.30 pm
	per ISPE guidelines. Hands-on case studies explore	Venue: Ngee Ann
	system acceptance, testing, and QRM to ensure	Polytechnic
	compliance and operational readiness in regulated	1 Olytechnic
	environments.	
6 & 7	Kneat End User Training & Certification	Online learning:
		14/3/26 – 28/3/26
	This hands-on course trains users on Kneat's e-	
	Validation software, covering document/folder	28 Mar 2026
	Validation software , covering document/folder creation, editing, review, and approval. Learn to	28 Mar 2026 (Sat) and
	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables,	(Sat) and
	Validation software , covering document/folder creation, editing, review, and approval. Learn to	
	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and	(Sat) and 4 Apr 2026 (Sat)
	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and	(Sat) and
	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and	(Sat) and 4 Apr 2026 (Sat)
8 & 9	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and efficiency in regulated environments.	(Sat) and 4 Apr 2026 (Sat) 10 am – 5:30 pm
8 & 9	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and	(Sat) and 4 Apr 2026 (Sat) 10 am – 5:30 pm Online learning:
8 & 9	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and efficiency in regulated environments. Commissioning & Qualification (II)	(Sat) and 4 Apr 2026 (Sat) 10 am – 5:30 pm
8 & 9	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and efficiency in regulated environments. Commissioning & Qualification (II) This topic covers Commissioning & Qualification	(Sat) and 4 Apr 2026 (Sat) 10 am – 5:30 pm Online learning: 23/3/26 – 6/4/26
8 & 9	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and efficiency in regulated environments. Commissioning & Qualification (II) This topic covers Commissioning & Qualification principles, including FAT/SAT, DQ/IQ/OQ/PQ, and	(Sat) and 4 Apr 2026 (Sat) 10 am – 5:30 pm Online learning: 23/3/26 – 6/4/26 Practicum:
8 & 9	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and efficiency in regulated environments. Commissioning & Qualification (II) This topic covers Commissioning & Qualification principles, including FAT/SAT, DQ/IQ/OQ/PQ, and process validation stages. Learn to identify CPPs,	(Sat) and 4 Apr 2026 (Sat) 10 am – 5:30 pm Online learning: 23/3/26 – 6/4/26 Practicum: 6 Apr 2026 (Mon)
8 & 9	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and efficiency in regulated environments. Commissioning & Qualification (II) This topic covers Commissioning & Qualification principles, including FAT/SAT, DQ/IQ/OQ/PQ, and process validation stages. Learn to identify CPPs, CQAs, CDEs, and apply risk-based methodologies	(Sat) and 4 Apr 2026 (Sat) 10 am – 5:30 pm Online learning: 23/3/26 – 6/4/26 Practicum: 6 Apr 2026 (Mon) 6.30 pm -9.30
8 & 9	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and efficiency in regulated environments. Commissioning & Qualification (II) This topic covers Commissioning & Qualification principles, including FAT/SAT, DQ/IQ/OQ/PQ, and process validation stages. Learn to identify CPPs, CQAs, CDEs, and apply risk-based methodologies per ISPE guidelines. Hands-on case studies explore	(Sat) and 4 Apr 2026 (Sat) 10 am – 5:30 pm Online learning: 23/3/26 – 6/4/26 Practicum: 6 Apr 2026 (Mon) 6.30 pm -9.30 pm
8 & 9	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and efficiency in regulated environments. Commissioning & Qualification (II) This topic covers Commissioning & Qualification principles, including FAT/SAT, DQ/IQ/OQ/PQ, and process validation stages. Learn to identify CPPs, CQAs, CDEs, and apply risk-based methodologies per ISPE guidelines. Hands-on case studies explore system acceptance, testing, and QRM to ensure	(Sat) and 4 Apr 2026 (Sat) 10 am – 5:30 pm Online learning: 23/3/26 – 6/4/26 Practicum: 6 Apr 2026 (Mon) 6.30 pm -9.30 pm Venue: Ngee Ann
8 & 9	Validation software, covering document/folder creation, editing, review, and approval. Learn to manage test execution, deviations, smart tables, and reports using templates and cross-referencing. Gain proficiency in data import/modification and streamline validation workflows for compliance and efficiency in regulated environments. Commissioning & Qualification (II) This topic covers Commissioning & Qualification principles, including FAT/SAT, DQ/IQ/OQ/PQ, and process validation stages. Learn to identify CPPs, CQAs, CDEs, and apply risk-based methodologies per ISPE guidelines. Hands-on case studies explore	(Sat) and 4 Apr 2026 (Sat) 10 am – 5:30 pm Online learning: 23/3/26 – 6/4/26 Practicum: 6 Apr 2026 (Mon) 6.30 pm -9.30 pm

10	Process Validation	Online learning:
		26/3/26 – 9/4/26
	This topic covers the Process Validation	
	Lifecycle—Process Design, Qualification (CQV/PV), and Continued Process Verification (CPV). Learn prospective, concurrent, and retrospective validation approaches, Validation Master Plan development, and protocol/reporting requirements. Focuses on risk-based strategies and CPV to ensure sustained product quality and regulatory compliance.	Practicum: 9 Apr 2026 (Thu) 6.30-9.30 pm Venue: Ngee Ann Polytechnic
11	Cleaning Validation	Online learning:
		30/3/26 – 13/4/26
	This topic covers cleaning validation principles,	
	including SOP development, protocol design, and	Practicum:
	sampling methods. Learn CIP cycles, worst-case	13 Apr 2026
	scenario selection, and compliance with regulatory	(Mon) 6.30-9.30
	guidelines. Case studies provide practical insights	pm
	into effective cleaning validation strategies to ensure contamination control and meet industry	
	standards.	Venue: Ngee Ann
	otaniaa ao.	Polytechnic

^{*} Online learning materials will be provided two week prior to the Practicum sessions, enabling participants to study at their own pace. The **Practicum** will be held **in-person** at Ngee Ann Polytechnic and will feature case studies, hands-on activities, presentations, discussions, and more, providing learners with opportunities to apply their knowledge.

For Inquiries, please contact:

Dr SONG Shiwei (<u>SONG_Shiwei@np.edu.sg</u>)
Dr NEW Jen Yan (<u>NEW_Jen_Yan@np.edu.sg</u>)