



## TRAINING TOPICS FORM

Our training courses are based on learning by doing. This entails that the training courses are interactive and contain workshops, games, quizzes and practical modules.

Please click the appropriate boxes to indicate in which subjects you are interested.

GMP - General		
Topics	Content	Add
GMP general	<ul style="list-style-type: none"> <li>• GMP introduction (+ workshop)</li> <li>• Regulations and guidelines (+ Quiz)</li> </ul>	<input type="checkbox"/> <input type="checkbox"/>
Quality Systems	<ul style="list-style-type: none"> <li>• Deviations &amp; CAPAs</li> <li>• Risk Management ICHQ9 (+ workshop)</li> <li>• Change control (only with risk management) (+ workshop)</li> <li>• Training system</li> <li>• Root cause investigations (+ workshop)</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
GMP Documentation	<ul style="list-style-type: none"> <li>• Pharmaceutical documentation (general)</li> <li>• Data Integrity</li> <li>• Analytical documentation (+ workshop)</li> <li>• Following a work instruction (+ practice)</li> <li>• How to use a BR (+ practice)</li> <li>• Design a BR/SOP/WI (workshop)</li> <li>• Design a document flow (workshop)</li> <li>• Batch Record Review and disposition (QP)</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Audits and Inspections	<ul style="list-style-type: none"> <li>• Introduction to audits</li> <li>• Internal Audits (+workshop)</li> <li>• External audits</li> <li>• Audit techniques</li> <li>• Audit team &amp; program</li> <li>• Execution of an audit</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
GDP	<ul style="list-style-type: none"> <li>• Labelling</li> <li>• Leaflet &amp; Packaging</li> <li>• Storage</li> <li>• Distribution</li> <li>• Warehouse</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



RA	<ul style="list-style-type: none"> <li>• Drug Substance</li> <li>• Drug Product</li> <li>• Lot Release</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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## Quality Control Laboratory

QC Laboratory General	<ul style="list-style-type: none"> <li>• Tasks of QC department</li> <li>• Test methods</li> <li>• OOS process (+ workshop)</li> <li>• Stability studies</li> <li>• Bill of Testing</li> <li>• Aseptic behaviour &amp; gowning (+ workshop)</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
QC safety	<ul style="list-style-type: none"> <li>• Chemical safety</li> <li>• Biosafety</li> <li>• Spill training (practice)</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
QC method lifecycle	<ul style="list-style-type: none"> <li>• Method development</li> <li>• Method verification / qualification / validation</li> <li>• Method Transfer</li> <li>• Outsourcing &amp; Vendor management</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
QC methods (analytical)	<ul style="list-style-type: none"> <li>• pH (+ practice)</li> <li>• Conductivity (+ practice)</li> <li>• Osmolality (+ practice)</li> <li>• Growth promotion test</li> <li>• Microbiological identification techniques</li> <li>• Bioburden testing (+ demo)</li> <li>• Sterility testing (+ demo)</li> <li>• Endotoxin testing</li> <li>• Environmental monitoring (+ practice)</li> <li>• qPCR (+ practice)</li> <li>• Digital PCR (+ practice)</li> <li>• Flow cytometry (+ practice)</li> </ul>	<input type="checkbox"/> <input type="checkbox"/>
QC equipment	<ul style="list-style-type: none"> <li>• Pipetting basic course (2 hours) (+ practice)</li> <li>• Pipetting advanced course (1 day) (+ practice)</li> <li>• How to use a balance (practice)</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



Operations	
<b>Validation &amp; Qualification</b>	<ul style="list-style-type: none"> <li>• Equipment lifecycle / Equipment qualification (+ workshop)</li> <li>• Process validation (+ workshop)</li> <li>• Media simulations (+ workshop)</li> <li>• Computerised system (GAMP 5) (+ workshop)</li> </ul>
<b>Contamination control</b>	<ul style="list-style-type: none"> <li>• Pharmaceutical microbiology and disinfection (+ workshop)</li> <li>• Cleaning &amp; Sterilization (+ practice)</li> <li>• Environmental monitoring (+ workshop)</li> <li>• Cleaning a cleanroom (+ practice)</li> <li>• Annex 1; cleaning control strategy</li> </ul>
<b>Operations / Manufacturing Theoretical</b>	<ul style="list-style-type: none"> <li>• Cleanroom principles</li> <li>• Cleanroom behaviour &amp; communication (+ workshop)</li> <li>• Gowning class D, C, B, A (+ practice)</li> <li>• Working in a BSC/LAF cabinet (+ practice)</li> <li>• Biotech production; the basics</li> <li>• Basic principles manufacturing process</li> <li>• Basic principles ATMP manufacturing</li> <li>• Basic principles mRNA manufacturing</li> <li>• Basic principles vaccine manufacturing</li> <li>• Basic principles viral vector</li> <li>• Starting materials &amp; raw materials</li> <li>• Sterilisation methods</li> </ul>
<b>Manufacturing Equipment</b>	<ul style="list-style-type: none"> <li>• Biowelder (practice)</li> <li>• Sterile Connection Device (practice)</li> <li>• Automatic filling line (practice)</li> <li>• Manual filling pump (practice)</li> <li>• Autoclave (practice)</li> <li>• Particle counter (practice) (part of EM practice)</li> <li>• Microbiological Air Sampler (practice) (part of EM practice)</li> <li>• Filter tester (practice)</li> <li>• Cell counter (manual/nucleocounter/ViCell) (practice)</li> <li>• Bioreactor (30 L Stainless Steel)</li> <li>• Bioreactor Single-use (Wave-rocker or stirred tank reactor) (practice)</li> <li>• MVP – filtration (practice)</li> <li>• MVP – mediaprep (practice)</li> <li>• AKTA ready (practice)</li> <li>• Single-use mixer (practice)</li> <li>• Biosafety cabinet (practice)</li> <li>• qPCR</li> <li>• digital PCR</li> <li>• pH meter</li> <li>• Conductivity meter</li> <li>• Osmolality meter</li> <li>• Dyna select</li> <li>• Rotea</li> <li>• Balance</li> <li>• Pipettes (single -and multichannel, multipette)</li> <li>• Black &amp; white panel &amp; polarized light (visual inspection)</li> <li>• Isolator</li> </ul>



<b>Manufacturing general</b>	• Cell banks	<input type="checkbox"/>
	• Cell culture & counting (+ practice)	<input type="checkbox"/>
	• Process control (+ workshop)	<input type="checkbox"/>
	• Buffer & media preparation (+ practice)	<input type="checkbox"/>
	• Fermentation (+ practice)	<input type="checkbox"/>
	• Aseptic filling: manual fill (+ practice)	<input type="checkbox"/>
	• Aseptic filling: using an automatic filling line (+ practice)	<input type="checkbox"/>
	• Visual inspection (+ practice)	<input type="checkbox"/>
	• Chromatography (+ practice)	<input type="checkbox"/>
	• Clarification (+ practice)	<input type="checkbox"/>
	• Filtration (+ practice)	<input type="checkbox"/>
	• Virus inactivation (+ workshop)	<input type="checkbox"/>
	• Viral clearance	<input type="checkbox"/>
	• Ultrafiltration & diafiltration (+ practice)	<input type="checkbox"/>
	• Lyophilisation (+workshop)	<input type="checkbox"/>
	• Working with disposables (+ practice)	<input type="checkbox"/>
<b>Manufacturing ATMP</b>	• Isolation (+ practice)	<input type="checkbox"/>
	• Concentration (+ practice)	<input type="checkbox"/>
	• Transfection (+ practice)	<input type="checkbox"/>
<b>Process Development</b>	• Critical aspects during production (CQA)	<input type="checkbox"/>
	• Extractables & Leachables	<input type="checkbox"/>
	• Scale up	<input type="checkbox"/>
<b>Single-use technology</b>	• Single use materials	<input type="checkbox"/>
	• Single use systems	<input type="checkbox"/>
<b>Safety</b>	• Biosafety	<input type="checkbox"/>
	• Chemical safety	<input type="checkbox"/>
	• Chemical spill training (+ practice)	<input type="checkbox"/>
	• Biological spill training (+ practice)	<input type="checkbox"/>
<b>In-process control</b>	• pH (+ practice)	<input type="checkbox"/>
	• Conductivity (+ practice)	<input type="checkbox"/>
	• Osmolality (+ practice)	<input type="checkbox"/>
<b>Facility &amp; Utilities</b>	• From conceptual design to a qualified facility	<input type="checkbox"/>
	• Facility Lay out and classifications	<input type="checkbox"/>
	• HVAC system (+ demo)	<input type="checkbox"/>
	• Pharmaceutical Water (+ demo)	<input type="checkbox"/>



## Research & Development

<b>GMP in Pharmaceutical Development</b>	<ul style="list-style-type: none"> <li>• GMP during Research &amp; Development (+ workshop)</li> <li>• The life cycle of a pharmaceutical product</li> <li>• The development process of a pharmaceutical product</li> <li>• Risk assessment (+ workshop)</li> <li>• Identifying specifications (+ workshop)</li> <li>• Legislation</li> <li>• Test methods and test validation</li> <li>• Validation process (+ workshop)</li> <li>• Investigational Medicinal Product (IMP): production, testing, release and transportation</li> </ul>	<input type="checkbox"/>
		<input type="checkbox"/>
<b>Process Validation in Biopharmaceutical Production</b>	<ul style="list-style-type: none"> <li>• Basics of process validation and regulatory expectations</li> <li>• Validation step by step</li> <li>• Different types of process validation</li> <li>• Media simulations (+ workshop)</li> <li>• Validation documentation</li> <li>• Validation and risk assessment (+ workshop)</li> <li>• Control strategy</li> <li>• Performance monitoring, ongoing process verification</li> <li>• Clearance validation</li> <li>• Cleaning validation (+ workshop)</li> <li>• Validation of extractables and leachables</li> </ul>	<input type="checkbox"/>
		<input type="checkbox"/>
<b>Technology Transfer</b>	<ul style="list-style-type: none"> <li>• Capabilities and culture of receiving company</li> <li>• Batch production records</li> <li>• Test procedures</li> <li>• Sampling plan (+ workshop)</li> <li>• Release specifications</li> <li>• Process implementation (CQAs and CPPs)</li> <li>• Change management</li> <li>• Transferring analytical method (+ workshop)</li> <li>• Transferring process from R&amp;D to GMP (+ workshop)</li> <li>• External Tech Transfer</li> </ul>	<input type="checkbox"/>
		<input type="checkbox"/>

## Educational Games

<b>Games</b>	<ul style="list-style-type: none"> <li>• Pharma Mystery (QA)</li> <li>• Escape Room (Operations)</li> <li>• Escape Room (QC)</li> <li>• Lean Lab (Lean)</li> <li>• Pictionary (General GMP)</li> <li>• 30 seconds (General GMP)</li> </ul>	<input type="checkbox"/>
		<input type="checkbox"/>



## Notes

DISCLAIMER: This document is used to give you an idea of what we can do for you. If you would like to have a certain topic trained which is not mentioned on the list, please let us know so we can check if this is something what lies within our capabilities.

