



NIBRT Online Academy (NOA) -
Online learning platform for
biopharma manufacturing
(noa.nibr t.ie)

About

The NIBRT Online Academy (NOA) is an online learning platform for the biopharma manufacturing industry created by the multi award-winning training facility, the National Institute for Bioprocessing Research and Training (NIBRT).

The platform delivers on demand learning on key aspects of biopharma manufacturing developed by leading industry experts. Users can access the modules online in their own time and study at their own pace. NOA provides a quality, efficient and cost-effective training solution from a recognised global leader in biopharma training.

How NOA Works

- + Users can access NOA via noa.nibr t.ie with individual and group licences available
- + NOA offers a constantly updated library of on-demand modules on key biopahrma manufacturing topics such as upstream bioprocessing, aseptic fill finish etc.
- + The interactive modules offer engaging multi-media content including video tutorials from subject matter experts, 3D models, animations and virtual simulations.
- + Content is presented in bite-size chunks of information and lessons are 45-90 minutes in duration.
- + Users can access NOA from a broad range of devices including desktop, tablet or smartphone
- + A certificate of completion is provided to users who successfully complete a module assessment
- + NOA also provides a wide range of free content

Who Should Use the NOA Platform?

NOA is focused on assisting the career development of those involved in biopharma manufacturing and is suitable for training individuals and groups including:

- + Biopharma companies looking to upskill a team or train their staff
- + Suppliers and vendors who wish to gain a better understanding of biopharma manufacturing
- + Educational institutes providing best-in-class training solutions to their students
- + Individuals looking to further their knowledge of the biopharma industry



Who we Are

NIBRT is a global centre of excellence for training and research in bioprocessing. NIBRT is based in Dublin, Ireland with established global partnerships in USA, China, Australia, South Korea and Canada.

NIBRT develops and delivers state-of-the-art training and education programmes for academic institutions and the world's leading biopharma manufacturing companies. We offer a training and research experience not previously possible anywhere in the world from a world-class facility. Our training curriculum is developed by leading subject matter experts and prepares our trainees for real-life work scenarios.

NOA was launched by NIBRT in 2020, to provide a convenient, high quality online learning experience on key aspects of biopharma manufacturing.

Why Train with NOA?

- + NIBRT is a world-renowned training facility with many years experience developing high quality training programmes for the bioprocessing industry
- + Group licences are available with significant discounts to provide cost effective training solutions.
- + Modules can be accessed on demand, at any time and across a broad range of platforms.
- + NOA provides key features to maximise learning outcomes including user friendly interactive design, ongoing assessment, accompanying module materials and a certificate of completion.
- + Excellent client testimonials and case studies
- + Modules developed with NIBRT partners including Skillpad, Cytiva, QRMi

NOA by Numbers



NOA Courses

Free Content (F); Webinar (W)

Advanced Therapy Medicinal Products (ATMPs)

- + Introduction to Cell Therapy
- + Introduction to Gene Therapy
- + Introduction to Cell Therapy Manufacturing ^{F,W}
- + Introduction to Gene Therapy Manufacturing ^{F,W}
- + Introduction to Viral Vector Production for Gene Therapy
- + Biomanufacturing of Next Generation Vaccines: Challenges and Opportunities Webinar

Downstream Processing

- + Downstream Processing: Centrifugation
- + Downstream Processing: Protein Purification – Chromatography
- + Downstream Processing: Ultrafiltration and Diafiltration

Free content

- + Biomanufacturing of Next Generation Vaccines: Challenges and Opportunities Webinar ^{F,W}
- + Bioreactor Operations
- + Glycan Characterisation ^{F,W}
- + Good Handwashing Techniques
- + Inoculum and Cell Culture Virtual Reality Beta Version
- + Introduction to Cell Therapy Manufacturing ^{F,W}
- + Introduction to Gene Therapy Manufacturing ^{F,W}
- + Introduction to Viruses
- + The Essential I4.0 Technologies to Assist with Manufacturing in the New C19 Reality ^{F,W}
- + Vaccine and Immunity

General Overview

- + Biotechnology and Biopharmaceuticals
- + Cell Biology and Recombinant DNA Technology
- + Overview of Biopharmaceutical Manufacturing
- + Trends in Biopharmaceutical Manufacture

Quality Risk Management

- + Module 1: The Fundamentals of Effective Risk Management for Biopharmaceutical Manufacture
- + Module 2: Fundamentals of Risk Management
- + Module 3: Regulatory Requirements for Quality Risk Management in the Biopharmaceutical Industry
- + Module 4: Implementing Effective Risk Control Strategies
- + Module 5: Application of Quality Risk Management Every Day
- + Module 6: Your Role in Preventing and Reducing Product and Patient Risk
- + Assessment and Certification for Fundamentals of Effective Risk Management

Cytiva Catalogue

- + Advanced IEX Chromatography for Bioprocessing
- + Advanced MM Chromatography for Bioprocessing
- + Biomanufacturing Process Capability Requirements
- + Filtration Process Development
- + Introduction to Preparative Protein Chromatography
- + Overview of the Biopharma Industry and Products
- + Overview of Host Cells for Bioprocessing
- + Understanding Filtration in Bioprocessing
- + Understanding Upstream Bioprocessing

Viral Vector Production for Gene Therapy with Cytiva

- + Viral Vector Production for Gene Therapy – Introduction
- + Viral Vector Production for Gene Therapy: Introduction and Upstream
- + Viral Vector Production for Gene Therapy: Introduction and Downstream
- + Viral Vector Production for Gene Therapy: Introduction and Quality Control
- + Viral Vector Production for Gene Therapy: Full Learning Plan

Formulation, Fill Finish and Aseptic Processing

- + Aseptic Processing: Gowning
- + Aseptic Processing: Cleanrooms and Control Technologies
- + Aseptic Processing: Concepts and Controls
- + Aseptic Processing: Contamination Control
- + Aseptic Processing: Decontamination and Sterilization Technologies
- + Clean In Place
- + Cleanrooms and Cleanroom Behaviour
- + Formulation in the Biopharmaceutical Industry
- + Freeze Drying

Process Validation

- + Process Validation 1: Process Design
- + Process Validation 2: Process Qualification and Control

Upstream Processing

- + Bioreactor Operations
- + Cell Culture in Biopharmaceutical Manufacturing
- + Fermentation in Biopharmaceutical Manufacturing
- + Upstream Processing: Bioreactors in Bioprocessing

Vaccine Manufacturing

- + Biomanufacturing of Next Generation Vaccines: Challenges and Opportunities ^{F,W}
- + Developing Vaccines for Shigella ^{F,W}
- + Introduction to Vaccine Manufacturing
- + Introduction to Viruses ^F
- + Plant-Based Biopharmaceuticals: Plant and Yeast Derived Malaria Vaccines ^{F,W}
- + Vaccines and Immunity ^F
- + Vaccine Development for COVID-19 ^{F,W}

Coming Soon

- + Biopharma 4.0
- + Single Use Systems in Biopharma Manufacturing

Testimonials

“ The courses are relevant and very instructive, confirming knowledge gained over many years in the Cell Culture industry, and re-focusing my ideas.

Jo Hanley, Global Customer Services training leader, Cytiva

“

Aseptic process training via NOA Academy was really useful to us. Tests after each section are an interesting part as you need to be focused during videos. The certificate that you will get at the end is always a good addition to your resume. I would recommend to everyone who wants to get better knowledge about aseptic processing. It will help you in your future work.

Tatjana Lozic, Quality & Projects Associate, M2 7 Limited

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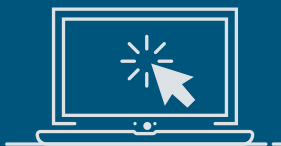
NIBRT have an extremely impressive teaching methodology, providing a great level of detail on each of their courses. The course provides an easy-to-navigate platform and gives extensive details in relation to general Bioreactor Operations. This is one of many courses I have undertaken with NIBRT, and they continue to impress with their well-structured, creative, and informative courses; I look forward to learning more from NIBRT.

Paul Branigan, Consultant Validation Engineer, Alexion Pharmaceuticals

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The course is very well structured with great explanations and graphics. It was very interesting to see how the important bioreactor parameters are controlled. I would definitely recommend NOA to anyone interested in bioprocessing.

Olga Ventolg, Student



How to Enrol

Group or team training can be arranged by contacting

info@nibr.ie

Individuals enrol online at

noa.nibr.ie

