



NBC2 Expands Website to Include Instructor's Portal

New and seasoned biotechnology and biomanufacturing instructors can now access additional educational resources at biomanufacturing.org by signing up for the new NBC2 Instructors portal. This restricted area of the

website will house resources to assist in building a robust and industry relevant biomanufacturing course including:

PowerPoint Lectures to accompany each chapter of the *Introduction to Biomanufacturing* textbook.

Curriculum Modules that address the current needs of the industry. These modules, developed from our miniBIOMAN faculty workshops, contain lectures, laboratory procedures and materials lists allowing easy insertion of the topic into existing courses.

Standard Operating Procedure flex forms allow instructors to create their own SOPs as new processes are developed or modify any of the 100 NBC2 SOPs available to better incorporate lab activities into their program.

New NBC2 Biomanufacturing Exam.

Sign up now at biomanufacturing.org for access to these great instructional resources!

NBC2 Releases Comprehensive Biomanufacturing Exam

NBC2 completed a 3-year project to develop a comprehensive biomanufacturing exam. In the early stages of the project seventeen biomanufacturing industry Subject Matter Experts (SMEs) convened to review and validate the biomanufacturing skill standards that were previously developed by NBC2. These skill standards were mapped to Knowledge, Skills and Activities (KSAs) as they related to the field of biomanufacturing. From the KSAs mapped, a task survey was developed in which sixty industry technicians identified and weighted six areas of biomanufacturing they perform regularly, based on time and importance typically spent on tasks. With this information, a test blueprint was designed, and NBC2 personnel and industry partners developed close to 200 test questions to reflect the importance of each category found in the test blueprint: Critical Thinking, Math & Science, Operation Control & Management, Production & Processing, Quality, and Technology & Equipment. From the 200 questions, a 100-question exam was developed and is now available on the NBC2 instructors portal. The exam is designed to test student knowledge upon completion of an associate's degree level course or program in biomanufacturing. It can also serve industry to ascertain the knowledge level of entry-level technicians. Supplemental questions for specialty areas of biomanufacturing will also be available soon within the new instructors portal.

Coming soon, details and registration for Summer 2018 miniBIOMAN Conferences:

- **Downstream Processing of mAbs**, Mt. Wachusett C.C. in Gardner, MA
- **Incorporating Undergraduate Research in QC and Process Development**, FLCC in Canandaigua NY
- **Quality by Design in Process Development**, MiraCosta College in Oceanside, CA

