



أساسيات التقنية الحيوية في العربية: دليل شامل للمبتدئين

Duration: 5 Days

Language: ar

Course Code: IND05-112

Objective

:Upon completion of this course, participants will be able to

- Understand the importance of productive biotechnology across different industries, including healthcare.
 - Describe the common biological products used within biotechnology and its manufacturing process.
 - Investigate and ensure compliance with all legal regulations and standards.
- Explore the history of biotechnology and how its demand has evolved over time.
 - Assess various facility designs and how they effectively serve their purpose.
 - Evaluate the regulatory foundation that makes biological products different to traditional pharmaceutical products.
- Explore emerging technologies and how they may influence existing and future biotechnology.

Audience

This course is designed for anyone who wishes to enter a career in biotechnology or those within the career who wish to refresh their knowledge. It would be most beneficial for:

- Biotechnology Engineers

- Pharmaceutical Directors
- Laboratory Research Scientists
- HR Personnel
- Biotechnology Facilities Managers
- Biotechnology Manufacturers
- HSE Officers
- Compliance Officers

Training Methodology

This course uses a variety of adult learning styles to aid full understanding and comprehension. Participants will review case studies of organisations that use biotechnology to highlight their purpose, specific developments, and how it has led to success.

They will be provided with all the necessary tools and equipment to participate in the variety of learning exercises offered. This combination of seminars, video materials, demonstrations, and group activities guarantees that the participants can develop a strong understanding of the taught content and practise all related physical skills.

Summary

Biotechnology is the use of biological systems to create products and systems that improve various areas of society. Although it has existed for thousands of years, its capabilities have only been truly tested in modern times.

It is important to understand the progression of biotechnology to appreciate the research and scientific discoveries that have contributed to its success and how these have influenced modern-day biotechnologies. The development pattern makes it clear how biotechnology has spread to other industries and led to significant improvement in various processes.

Due to the nature of biotechnology, there are also a significant number of national and international laws, regulations, and standards an organisation must follow. These establish guidance on how to design biotechnology facilities safely and effectively and discuss how they should be maintained throughout their lifetime.

Course Content & Outline

Section 1: Fundamentals of Biotechnology

- Defining what biotechnology is and its rising necessity within various industries.
- The different subdisciplines of biotechnology and how they are categorised – red, white, green, gold, blue and more.
- Identifying what industries primarily use biotechnology and how this has improved their practices.
- Exploring the advantages of biotechnology and acknowledging the potential harm.
 - Are the benefits of biotechnology worth the risk?

Section 2: Regulations and Standards

- Assessing what national and international laws regulate and setting the standards for developing and managing biotechnology.
- Investigating the application of international trade laws and international protection of the environment.
 - The implication of human rights throughout the biotechnology process.
 - Ensuring biotechnologies and products align with Good Manufacturing Practices (GMPs).

Section 3: The Development of Biotechnology

- Evaluating the history of biotechnology and how it has significantly developed over time.
- Assessing the rapid development of biotechnology beginning with the development of genetic engineering in 1973.
- How biotechnology spread from the agricultural sector to healthcare, environment, and industry.
- Exploring new biotechnology developments and predicting how these may be used in the future.

Section 4: Designing Biotechnology Facilities

- Identifying key stages in the biotechnology facilities design process and their importance.

- Assessing the ultimate goals for the facility and what biotechnologies will be used.
- Quantifying the desired space and categorising areas based on the requirements of the desired equipment.
 - Ensuring a safe flow of people – all pathways are clearly identified and clear of any obstructions.
- All potentially harmful materials should be stored securely and separated from reactive materials.

Section 5: Biotechnology in Practice

- Describe the current trends in biotechnology and potential future trends.
- Investigating the specific use of biotechnology throughout different sectors.
- Agriculture – drought-resistant crops, lab-grown meat, selective breeding and more.
- Medicine – stem cell research, antibiotic development, gene therapies and more.
- Environment/Conversation – Bioremediation, plastic-eating bacteria, and genetic restoration.

Certificate Description

Holistique Training. عند إتمام هذه الدورة التدريبية بنجاح، سيحصل المشاركون على شهادة إتمام التدريب من (e-Certificate) وبالنسبة للذين يحضرون ويكملون الدورة التدريبية عبر الإنترن特، سيتم تزويدهم بشهادة إلكترونية من Holistique Training.

وخدمة اعتماد التطوير المهني (BAC) معتمدة من المجلس البريطاني للتقييم Holistique Training شهادات ISO 29993 أو ISO 21001 كما أنها معتمدة وفق معايير (CPD) المستمر.

لهذه الدورة من خلال شهادتنا، وستظهر هذه النقاط على شهادة إتمام (CPD) يتم منح نقاط التطوير المهني المستمر واحدة عن كل ساعة CPD يتم منح نقطة، ووفقاً لمعايير خدمة اعتماد Holistique Training التدريب من لأي دورة واحدة نقدمها حالياً CPD حضور في الدورة. ويمكن المطالبة بحد أقصى قدره 50 نقطة.

Categories

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أبرز وظائف تكنولوجيا المعلومات لعام 2024

تلعب التكنولوجيا دوراً حيوياً في تطوير وتحسين الكفاءة والإنتاجية في مختلف الصناعات، بدءاً من الأعمال التجارية وصولاً إلى الرعاية الصحية والتعليم. تتنوع وظائف و مجالات تكنولوجيا المعلومات بشكل كبير، مما يوفر فرصاً متعددة للمتخصصين في هذا المجال. من تطوير البرمجيات وإدارة الشبكات إلى تحليل البيانات والأمن السيبراني، تكنولوجيا المعلومات تشكل العمود

YouTube Video

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