

Health care and Pharmaceutical

(PDCP) PHARMACEUTICAL DEVELOPMENT CERTIFIED PROFESSIONAL™

Curriculum

Program Outline :

Module 1: fundamentals of (PDCP) Pharmaceutical Development Certified Professional™

- 1.Product Development:** Understanding the interactions of multi disciplinary functions and applying experimental design methodologies to develop pharmaceutical products that meet quality, purity, potency, and efficacy standards.
- 2. Clinical Phases and Manufacturing:** Knowledge of clinical trial phases (I, II, III) and the production process, including the impact of decisions made during drug development on product lifecycle viability.
- 3.Technology Transfer:** Skills in planning, executing, and assimilating technology and knowledge transfer effectively and efficiently.
- 4.Regulatory Compliance:** Ensuring compliance with regulatory requirements and standards throughout the product development and manufacturing processes.
- 5.Continuous Improvement:** Implementing processes that facilitate continuous improvement in product quality and manufacturing efficiency.

Module 2: Advanced (PDCP) Pharmaceutical Development Certified Professional™

- 1. Pharmaceutical Development Expertise:** Demonstrates advanced knowledge of the drug development process, including discovery, preclinical studies, clinical trials, and commercialization.
- 2. Regulatory Compliance:** Focuses on adherence to global regulations and guidelines, such as FDA, EMA, and ICH standards, ensuring the development of safe and effective pharmaceutical products.
- 3. Quality and Risk Management:** Covers Good Manufacturing Practices (GMP), Quality by Design (QbD), and risk-based approaches to ensure product integrity and regulatory compliance.
- 4. Career Opportunities:** Opens pathways to roles like Pharmaceutical Development Scientist, Regulatory Affairs Specialist, or Drug Development Project Manager in the pharmaceutical industry.
- 5. Ongoing Certification:** Requires periodic renewal and continuing education to remain current with advancements in pharmaceutical development technologies and regulatory changes.

Module 3: Practical Applications

- 1. Patient Care and Management:**
Medication Therapy Management (MTM): Pharmacists optimize medication regimens to improve therapeutic outcomes and reduce adverse effects.
- 2. Clinical Practice:**
Patient Counseling: Educating patients on proper medication use, potential side effects, and lifestyle modifications to enhance health outcomes.

3. Pharmaceutical Research and Development:

Drug Discovery and Development: Conducting research to discover new medications and develop existing ones

4. Healthcare Technology and Innovation:

Telemedicine: Using telehealth platforms to provide remote consultations, follow-ups, and health monitoring

Module 4: Capstone Project

1. Impact of Telemedicine on Patient Outcomes

Analyze the effectiveness of telemedicine in improving patient outcomes, especially for chronic disease management .

2. Pharmaceutical Waste Management

Develop strategies to reduce pharmaceutical waste and its environmental impact.

3. Medication Adherence in Elderly Patients

Investigate factors affecting medication adherence among elderly patients and develop interventions to improve adherence.

4. Implementation of an Electronic Health Records (EHR) System

Assess the challenges and benefits of implementing an EHR system in a healthcare facility.

ELECTIVE MODULES

1. Advanced Pharmacology: Deep dive into the mechanisms of action, side effects, and interactions of various drugs.

2.Clinical Research Methods: Learn about designing and conducting clinical trials, data analysis, and ethical considerations.

3.Health Informatics: Study the use of information technology in healthcare, including electronic health records and data management.

4.Global Health: Explore health issues and solutions in a global context, including international health policies and practices

Websites:

- <https://chools.in/>
- <https://ramaqchools.com/>
- <https://www.choolsgroup.com/>