COBBLESTONE

COURSE ID 2988

An Introduction to Oral Solid Dosage Form

Terminology, Process and Material Basics

DIRECTED BY

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3 Hour

ACCREDITED COURSE

- Terminology
- General Operations of Major Equipment
- Processes for Manufacturing Tablets, Capsules
- Evaluation of Powders and Dosage Form

about the course

The most common pharmaceutical dosage is the oral solid dosage form which includes both tablets and capsules. There are many different ways to manufacture these products, starting with the appropriate selection of excipients all the way through the production of the finished product. Ultimately, the successful production of a tablet or capsule is dependent upon the knowledge and expertise of the developers, formulators, and production staff.

This three-hour accredited training will start with descriptions of the dosage forms, the manufacturing systems used, and the evaluation of these forms. After the overview of the finished form has been presented, the session will cover the process and materials that are used in making these dosage forms.

The emphasis will be on understanding the terminology to allow participant to more effectively understand and communicate in the field of solid oral dosage forms.

Since this training is highly interactive, those attending the live training event must have a webcam on their computer as well as a microphone and speakers/headset in order to fully participate.

who should attend

This introductory session is intended for professionals in the pharmaceutical and nutraceutical industries. All scientists, technologists and suppliers who are new to this technology and who may need or who are concerned with being knowledgeable enough in the terms and general operations of the major equipment and processes used to make tablets, capsules, and similar products, as well as the terms related to the evaluation of powders and dosage forms.

learning objectives

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

- Describe the various types of dosage forms, the process for production and the material properties needed
- Explain the basic physical concepts of powders needed for compression and consolidation
- Discuss the basics of the various systems involved in preparing powders for dosage forms

course outline

Review of Learning Objectives
Module 1:
Overview of Tablets

- Types of Oral Solid Dosage Forms
- Tablet design terminology
- Basics of the tableting process
- Tableting test and evaluation
- Terms to describe tablet failures

Module 2:
Overview of Capsules

- Hard and Softgel Capsules types
- Basics of the Encapsulation process
- Physics of compaction and plug formation
- Evaluation of materials for Oral Solid Dosage Forms

Module 3:
Overview of Systems for Preparing Powders for Making Dosage Forms

- Pretreatment of Powders for Tableting and Encapsulation
- Direct Compression and Dry Granulation
- Milling and mixing
- Segregation and handling
- Wet Granulation and Drying
- End Point control
- Particle design types
- Binders

Example formulation and ingredient descriptions

Optional: 30-Minute Question and Answer Session
Assessment Opportunity

course instructor

Dr. Cecil W. Propst is Managing Director at Propst Consulting Services, a formulation, and engineering support LLC located in Norton Shores MI. He was Director of R&D (Grand Haven site) at SPI Pharma until 2015. He served as Director of Quality Assurance and Technical Services at Fleming and Company, and before that, President of Manufacturing Chemists. His duties included system design, product and process development and regulatory affairs. Previously, he served as cGMP Facilities Director for the University of Maryland at Baltimore, in connection with the University's SUPAC contract with the FDA. Dr. Propst also served as Director of Technical Development for Stellar Manufacturing; Director of Quality Compliance for SmithKline Beecham; Director, Quality Assurance for Norcliff Thayer (a Revlon Company); and Group Leader/Product Development and Manager/Quality Control for Lewis Howe Company. He serves as a consultant in the area of product development and process investigations.

Accreditations

International Accreditors for Continuing Education and Training (IACET)

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