PEARLS BEAUTY INSTITUTE

PROFESSIONAL DIPLOMA IN

SKINCARE FORMULATION SCIENCE



Module 1: Skin Science & Skin Biology

Module Overview

A comprehensive introduction to skin science designed specifically for skincare formulators. Students will develop a foundational understanding of skin structure, function, physiology, skin diversity, barrier health and product-skin interactions.

1.01 Introduction to Skin Science

Description: Build a foundational understanding of skin science and its relevance to skincare formulation.

Core Learning Areas

- Scope of Skin Science
- Relationship Between Skin Biology and Formulation
- Role of Skin Science in Formulation
- Evidence-Based Skincare Principles

1.02 Skin Anatomy & Structure

Description: Examine the architecture of the skin and the biological components that contribute to skin function and appearance.

Core Learning Areas

- Skin Layers
- Epidermal Structure
- Dermal Structure
- Hypodermis

- Skin Appendages
- Cellular Components of the Skin

1.03 Skin Physiology

Description: Understand the biological processes that influence skin performance, maintenance, and response to skincare products.

Core Learning Areas

- Cell Turnover Dynamics
- Keratinization
- Sebum Production
- Hydration Mechanisms
- Skin Renewal Processes
- Skin Homeostasis

1.04 Functional Biology of the Skin

Description: Explore the mechanisms through which the skin maintains health and physiological balance.

Core Learning Areas

- Protective Functions
- Moisture Regulation
- Sensory Functions
- Thermoregulation
- Immunological Functions
- Skin Communication Systems

1.05 Skin Types & Skin Diversity

Description: Develop an understanding of skin variability and its significance in skincare formulation.

Core Learning Areas

- Skin Classification Systems
- Characteristics of Different Skin Types
- Skin Behaviour Patterns
- Factors Influencing Skin Types
- Formulation Considerations for Different Skin Profiles

1.06 Skin Conditions & Formulation Considerations

Description: Understand common skin concerns and formulation factors that influence ingredient selection and product suitability.

Core Learning Areas

- Skin Concern Identification
- Contributing Factors
- Skin Condition Assessment
- Formulation Considerations
- Ingredient Selection Principles

1.07 Skin Barrier Science

Description: Study the biological systems responsible for making skin integrity and resilience.

Core Learning Areas

- Stratum Corneum Biology
- Barrier Function Mechanisms
- Barrier Integrity
- Barrier Disruption
- Barrier Repair Principles

1.08 Transepidermal Water Loss (TEWL)

Description: Understand the relationship between water loss, barrier health, and formulation performance.

Core Learning Areas

- Water Loss Mechanisms
- Factors Affecting TEWL
- Skin Hydration Dynamics
- Barrier Performance Indicators
- Moisture Retention Principles

1.09 Skin Microbiome Fundamentals

Description: Explore the role of the skin microbiome in maintaining skin health and balance.

Core Learning Areas

- Skin Ecosystem Fundamentals
- Microbial Balance
- Microbiome Diversity

- Dysbiosis
- Microbiome-Supportive Concepts

1.10Product-Skin Interaction

Description: Examine how skincare products interact with the skin and influence effectiveness.

Core Learning Areas

- Product Application Dynamics
- Ingredient Delivery Pathways
- Skin Compatibility
- Products Performance Factors
- Consumer Experience Considerations

1.11 Skincare Routine Design & Product Layering

Description:Understand how skincare products function within complete skincare regimens.

- Product Categories
- Routine Structure Principles
- Product Layering Concept
- Day and Night Regimens
- Consumer Usage Patterns

1.12 Skin Analysis & Consultation Fundamentals

Description: Develop the ability to assess skin characteristics and identify skincare needs.

Core Learning Areas

- Clients Information Gathering
- Ethical Consultation Practices
- Principles of Skin Analysis
- Visual Skin Assessment
- Skin Consultation Techniques
- Identifying Skin Needs

MODULE 2: COSMETIC CHEMISTRY & RAW MATERIAL SCIENCE

Module Overview

This module introduces the scientific principles that govern cosmetic ingredients and formulation systems. Students will develop a practical understanding of ingredient functionality, compatibility, stability, and selection, providing the foundation required for successful skincare formulation.

2.01 Introduction to Cosmetic Chemistry

Description: Develop a foundational understanding of cosmetic chemistry and its role in skincare formulation.

Core Learning Areas

- Fundamentals of Cosmetic Chemistry
- Chemistry in Skincare Formulation
- Ingredient Functionality
- Chemical Interactions
- Formulation Principles

2.02 Matter, Molecules & Cosmetic Ingredients

Description: Explore the building blocks of cosmetic ingredients and their relevance in formulation science.

Core Learning Areas

- States of Matter
- Molecular Structure
- Atomic Fundamentals
- Ingredient Composition
- Physical and Chemical Properties

2.03 Solubility Principles

Description: Understand how ingredient solubility influences formulation design, performance, and stability.

Core Learning Areas

- Solubility Fundamentals
- Polar and Non-Polar Systems
- Water-Soluble Ingredients
- Oil-Soluble Ingredients
- Solubility Challenges

2.04 pH & Skincare Formulation

Description: Learn the significance of pH in skincare products and its influence on ingredient performance and skin compatibility.

Core Learning Areas

- pH Fundamentals
- Acidic and Alkaline Systems
- Skin pH
- Ingredient pH Requirements
- pH Adjustment Principles

2.05 Cosmetic Ingredient Categories

Description: Develop an understanding of the major ingredient groups used in skincare formulation.

Core Learning Areas

- Functional Ingredient Classification
- Active Ingredients
- Functional Ingredients
- Supporting Ingredients
- Ingredient Selection Principles

2.06 Humectants, Emollients & Occlusives

Description: Understand the primary ingredient groups responsible for hydration, moisturization, and barrier support.

Core Learning Areas

- Moisturization Mechanisms
- Humectant Systems
- Emollient Systems
- Occlusive Systems
- Skin Conditioning Principles

2.07 Surfactants & Cleansing Agents

Description: Explore the ingredients responsible for cleansing performance and consumer experience.

Core Learning Areas

- Surfactant Fundamentals
- Cleansing Mechanisms
- Surfactant Classification
- Foaming Characteristics
- Mildness Considerations

2.08 Preservatives & Product Protection

Description: Understand the role of preservation systems in maintaining product safety and integrity.

Core Learning Areas

- Preservation Fundamentals
- Microbial Control
- Preservative Systems
- Preservation Challenges
- Product Protection Strategies

2.09 Antioxidants & Ingredient Protection

Description: Learn how antioxidants contribute to ingredient stability and product quality.

Core Learning Areas

- Oxidation Processes
- Antioxidant Functionality
- Ingredient Protection

• Stability Support
• Product Longevity Principles

2.09 Antioxidants & Ingredient Protection
Description: Learn how antioxidants contribute to ingredient stability and product quality.
Core Learning Areas
• Oxidation Processes
• Antioxidant Functionality
• Ingredient Protection
• Stability Support
• Product Longevity Principles

2.10 Botanical Ingredients & Natural Actives
Description: Explore the role of plant-derived ingredients and their application in skincare formulation.
Core Learning Areas
• Botanical Ingredient Categories
• Plant Extracts
• Natural Actives
• Functional Benefits
• Formulation Considerations

2.11 Ingredient Compatibility & Stability

Description: Understand how ingredients interact within formulations and the factors affecting product stability.

Core Learning Areas

- Ingredient Interactions
- Compatibility Principles
- Stability Fundamentals
- Formulation Challenges
- Stability Considerations

2.12 Reading Technical Documents

Description: Develop the ability to interpret ingredient documentation and make informed formulation decisions.

Core Learning Areas

- Technical Data Sheets (TDS)
- Safety Data Sheets (SDS)
- Certificates of Analysis (COA)
- Ingredient Specifications
- Supplier Documentation

MODULE 3: FORMULATION MATHEMATICS & MEASUREMENT SYSTEMS

Module Overview

This module introduces the mathematical and measurement principles required for successful skincare formulation. Students will learn how to work with percentages, convert formulas into different batch sizes, perform accurate calculations, maintain formulation records, and apply measurement techniques essential for professional formulation practice.

3.01 Introduction to Formulation Mathematics

Description: Develop an understanding of the mathematical principles that support accurate and consistent skincare formulation.

Core Learning Areas

- Importance of Formulation Mathematics
- Mathematical Principles in Formulation
- Accuracy and Precision
- Common Calculation Errors
- Formula Development Fundamentals

3.02 Units of Measurement

Description: Learn the standard units of measurement used in cosmetic formulation and laboratory practice.

Core Learning Areas

- Metric Measurement System
- Weight Measurements
- Volume Measurements
- Unit Conversions
- Laboratory Measurement Standards

3.03 Percentages in Cosmetic Formulation

Description: Understand how percentages are used to design, interpret, and adjust skincare formulations.

Core Learning Areas

- Percentage Fundamentals
- Weight-by-Weight Calculations
- Percentage Allocation
- Formula Composition
- Ingredient Distribution

3.04 Formula Conversion & Batch Scaling

Description: Learn how to convert formulations into different batch sizes while maintaining formula accuracy and consistency.

Core Learning Areas

- Formula Scaling Principles
- Batch Size Calculations • Small Batch Production
- Large Batch Production
- Scaling Considerations

3.05 Calculating Active Ingredients

Description: Develop the skills required to accurately calculate and incorporate active ingredients into skincare formulations.

Core Learning Areas

- Active Percentage Calculations
- Active Matter Concepts
- Dilution Calculations
- Usage Rate Interpretation
- Formulation Accuracy

3.06 Dilution & Solution Preparation

Description: Understand the principles of dilution and solution preparation commonly applied in skincare formulation.

Core Learning Areas

- Dilution Principles
- Concentrated Ingredients
- Solution Preparation
- Dilution Ratios
- Practical Applications

3.07 Weighing & Measurement Principles

Description: Understand the principles of accurate weighing and measurement as they relate to formulation calculations and product consistency.

Core Learning Areas

- Weighing Fundamentals
- Measurement Accuracy
- Precision in Formulation
- Sources of Measurement Error
- Best Measurement Practices

3.08 Record Keeping & Batch Documentation

Description: Understand the importance of maintaining accurate formulation records and batch documentation throughout the formulation process.

Core Learning Areas

- Formulation Records
- Batch Sheets
- Formula Tracking
- Documentation Standards
- Traceability Principles

3.09 Formula Troubleshooting Fundamentals

Description: Develop the ability to identify, evaluate, and correct common formulation calculation and measurement errors.

Core Learning Areas

- Troubleshooting Principles
- Identifying Formula Errors

- Corrective Actions
- Calculation mistakes
- Quality Improvement Practices

3.10 Formulation Exercises & Practical Calculations

Description: Apply formulation mathematics through practical exercises designed to strengthen calculation and formulation skills.

Core Learning Areas

• Percentage Exercises
• Batch Conversion Exercises
• Active Ingredient Calculations
• Formula Interpretation
• Practical Formulation Scenarios

3.11 Formulation Accuracy & Quality Assurance

Description: Understand the importance of consistency, precision, and quality control in skincare formulation.

Core Learning Areas

• Accuracy Principles
• Consistency in Formulation
• Quality Assurance Fundamentals
• Formula Verification

- Professional Formulation Standards

3.12 Mathematical Applications in Skincare Formulation

Description: Apply mathematical principles to real-world skincare formulation scenarios and formulation decision-making.

Core Learning Areas

- Formula Interpretation
- Percentage Analysis
- Batch Planning
- Active Ingredient Calculations
- Practical Formulation Application

MODULE 4: COSMETIC LABORATORY PRACTICE & GOOD MANUFACTURING PRINCIPLES

Module Overview

This module introduces students to professional cosmetic laboratory operations, laboratory safety, equipment handling, documentation systems, and Good Manufacturing Principles (GMP). Students will develop the practical knowledge required to establish, organize, and maintain a safe and efficient formulation environment while adhering to industry standards and best practices.

4.01 Introduction to Cosmetic Laboratory Practice

Description: Develop an understanding of the role and importance of laboratory practice in professional skincare formulation.

Core Learning Areas

- Cosmetic Laboratory Fundamentals
- Laboratory Operations
- Professional Formulation Environments
- Laboratory Responsibilities
- Industry Best Practices

4.02 Laboratory Design & Setup

Description: Learn the key considerations involved in establishing an efficient and functional cosmetic formulation laboratory.

Core Learning Areas

- Laboratory Layout Planning
- Workspace Organization
- Laboratory Zoning
- Equipment Placement
- Workflow Optimization

4.03 Essential Formulation Equipment

Description: Become familiar with the equipment commonly used in cosmetic formulation and manufacturing.

Core Learning Areas

- Measuring Equipment
- Mixing Equipment
- Heating Equipment
- Testing Equipment
- Equipment Selection Criteria

4.04 Laboratory Safety & Risk Management

Description: Understand the principles of laboratory safety and risk prevention in cosmetic formulation environments.

Core Learning Areas

- Laboratory Hazards
- Risk Assessment
- Accident Prevention

- Emergency Procedures
- Safe Working Practices

4.05 Personal Protective Equipment (PPE)

Description: Learn the importance of personal protective equipment in maintaining safety and professionalism within the laboratory.

Core Learning Areas

• PPE Fundamentals
• Protective Clothing
• Eye Protection
• Hand Protection
• PPE Best Practices

4.06 Raw Material Storage & Handling

Description: Understand proper storage and handling procedures for cosmetic raw materials.

Core Learning Areas

• Storage Conditions
• Material Identification
• Inventory Management
• Material Handling Procedures
• Shelf-Life Management

4.07 Laboratory Hygiene & Sanitation

Description: Learn how to maintain cleanliness and hygiene standards within a cosmetic laboratory.

Core Learning Areas

- Hygiene Principles
- Sanitation Procedures
- Cross-Contamination Prevention
- Cleaning Protocols
- Environmental Monitoring

4.08 Equipment Cleaning & Maintenance

Description: Understand the procedures required to maintain equipment performance, cleanliness, and longevity.

Core Learning Areas

- Cleaning Procedures
- Maintenance Practices
- Equipment Inspection
- Calibration Awareness
- Equipment Care Standards

4.09 Laboratory Documentation Systems

Description: Develop an understanding of the documentation systems used to support formulation activities and manufacturing records.

Core Learning Areas

- Formulation Journals
- Batch Manufacturing Records
- Laboratory Logbooks
- Documentation Standards

4.10 Good Manufacturing Principles (GMP)

Description: Learn the foundational principles that support safe, consistent, and high-quality cosmetic production.

Core Learning Areas

- GMP Fundamentals
- Personnel Practices
- Facility Standards
- Documentation Requirements
- Quality-Oriented Manufacturing

4.11 Quality Control Fundamentals

Description: Understand the role of quality control in maintaining product consistency, safety, and performance.

Core Learning Areas

- Quality Control Principles
- Product Evaluation

- Inspection Procedures
- Quality Standards
- Continuous Improvement

4.12 Professional Laboratory Workflow

Description: Explore the systematic processes involved in moving from formulation planning to finished product production.

Core Learning Areas

- Workflow Management
- Formulation Planning
- Production Preparation
- Documentation Flow
- Professional Laboratory Practice

MODULE 5: EMULSION SCIENCE & FORMULATION SYSTEMS

Module Overview

This module introduces students to the science and application of cosmetic emulsions. Students will learn how oil and water phases interact, how emulsifiers function, and the principles required to create stable and aesthetically pleasing skincare formulations. This module serves as the foundation for developing creams, lotions, moisturizers, and other emulsion-based products.

5.01 Introduction to Emulsion Science

Description: Develop an understanding of emulsion systems and their importance in cosmetic formulation.

Core Learning Areas

- Fundamentals of Emulsions
- Emulsion Systems
- Importance of Emulsions in Skincare
- Characteristics of Emulsion-Based Products
- Formulation Applications

5.02 Oil Phase & Water Phase Fundamentals

Description: Learn the roles and characteristics of oil and water phases within cosmetic formulations.

Core Learning Areas

- Water Phase Components
- Oil Phase Components
- Phase Functionality
- Phase Selection Principles
- Phase Interactions

5.03 Types of Cosmetic Emulsions

Description: Understand the different emulsion systems used in skincare formulation and their practical applications.

Core Learning Areas

- Oil-in-Water Emulsions
- Water-in-Oil Emulsions
- Multiple Emulsions
- Emulsion Characteristics
- Product Selection Considerations

5.04 Emulsifiers & Their Functions

Description: Explore the ingredients responsible for combining and stabilizing oil and water phases.

Core Learning Areas

- Emulsifier Fundamentals
- Emulsifier Classification

- Emulsification Mechanisms
- Emulsifier Selection
- Emulsion Stability Principles

5.05 Co-Emulsifiers & Stabilizing Systems

Description: Understand the supporting ingredients that improve emulsion performance and stability.

Core Learning Areas

- Co-Emulsifier Functions
- Stabilizing Systems
- Texture Support
- Structural Enhancement
- Stability Improvement

5.06 Thickening Agents & Rheology Modifiers

Description: Learn how formulation ingredients influence viscosity, texture, and product aesthetics.

Core Learning Areas

- Thickening Systems
- Viscosity Modification
- Rheology Fundamentals
- Texture Development
- Sensory Characteristics

5.07 Emulsion Manufacturing Processes

Description: Develop an understanding of the manufacturing processes used to create stable emulsions.

Core Learning Areas

- Manufacturing Stages
- Heating Procedures
- Mixing Techniques
- Homogenization Principles
- Processing Considerations

5.08 Emulsion Stability Fundamentals

Description: Understand the factors that influence the stability and performance of emulsion-based products.

Core Learning Areas

- Stability Principles
- Phase Separation
- Instability Indicators
- Stability Monitoring
- Stability Optimization

5.09 Product Texture & Performance

Description: Learn how texture and product performance influence product quality and consumer acceptance.

Core Learning Areas

- Texture Assessment
- Product Feel
- Sensory Evaluation
- Consumer Experience
- Performance Characteristics

5.10 Cream Formulation Fundamentals

Description: Explore the principles involved in developing cream-based skincare products.

Core Learning Areas

- Cream Systems
- Product Structure
- Ingredient Selection
- Formulation Design
- Product Characteristics

5.11 Lotion Formulation Fundamentals

Description: Understand the formulation principles that govern lotion development and performance.

Core Learning Areas

- Lotion Systems
- Lightweight Emulsions
- Product Performance

- Formulation Considerations
- Consumer Applications

5.12 Moisturizing Formulation Principles

Description: Learn the foundational principles behind designing effective moisturizing formulations.

Core Learning Areas

- Moisturization Concepts
- Hydration Support Systems
- Barrier Support Principles
- Product Positioning
- Formulation Strategy

MODULE 6: CLEANSERS & SURFACTANT SYSTEMS

Module Overview

This module introduces students to the science of cleansing systems and surfactant technology.Students will learn how cleansing ingredients function, how different surfactant systems influence product performance, and the formulation principles required to develop effective and skin-compatible cleansing products.

6.01 Introduction to Cleansing Systems

Description: Develop an understanding of cleansing systems and their role in skincare formulation.

Core Learning Areas

- Fundamentals of Cleansing
- Cleansing Product Categories
- Cleansing Mechanisms
- Skin Cleansing Principles
- Product Performance Considerations

6.02 Surfactant Science Fundamentals

Description: Learn the principles that govern surfactant behaviour and cleansing performance.

Core Learning Areas

- Surfactant Fundamentals
- Surface Activity
- Surfactant Functions

• Cleansing Mechanisms
• Surfactant Performance

6.03 Types of Surfactants

Description: Understand the major categories of surfactants used in cosmetic formulation.

Core Learning Areas

- Anionic Surfactants
- Amphoteric Surfactants
- Non-Ionic Surfactants
- Cationic Surfactants
- Surfactant Selection Principles

6.04 Surfactant Blending & Compatibility

Description: Learn how surfactants are combined to improve cleansing performance, mildness, and user experience.

Core Learning Areas

• Surfactant Blending Principles
• Compatibility Considerations
• Performance Optimization
• Foam Characteristics
• Mildness Enhancement

6.05 Foam Characteristics & Consumer Experience

Description: Understand how foam properties influence

product performance and consumerperception.

Core Learning Areas

- Foam Formation
- Foam Stability
- Foam Quality
- Consumer Expectations
- Product Aesthetics

6.06 Mild Cleansing & Skin Compatibility

Description: Explore the formulation principles behind gentle and skin-friendly cleansing products.

Core Learning Areas

- Skin Compatibility
- Irritation Considerations
- Gentle Cleansing Systems
- Sensitive Skin Considerations
- Product Mildness

6.07 Facial Cleanser Formulation Principles

Description: Learn the foundational principles involved in developing facial cleansing products.

Core Learning Areas

- Facial Cleansing Systems
- Product Structure
- Ingredient Selection

• Formulation Considerations
• Product Performance

Practical Formulation Projects

- Barrier defence cleanser
- Hydra dew cleanser
- Clarity balance cleansing gel
- Resurfacing cleanser
- Gentle restore cleansing milk

6.08 Body Wash Formulation Principles

Description: Understand the formulation concepts used in developing body cleansing products.

Core Learning Areas

• Body Wash Systems
• Product Design
• Ingredient Selection
• User Experience
• Product Performance

Practical Formulation Projects

- Hydra refresh body wash
- Radiance renewal body wash
- Clarity balance body wash
- Botanical therapy body wash
- Barrier care body wash

6.09 Micellar Technology Fundamentals

Description: Explore the science and application of micellar cleansing systems.

Core Learning Areas

• Micellar Systems
• Micelle Formation
.Cleansing Mechanisms
• Product Applications
• Formulation Considerations

6.10 Sulfate-Free Cleansing Systems

Description: Understand the principles behind sulfate-free cleansing formulations and their market relevance.

Core Learning Areas

• Sulfate-Free Technologies
• Alternative Surfactant Systems
• Performance Characteristics
• Formulation Considerations

6.11 Cleanser Evaluation & Troubleshooting

Description: Develop the ability to assess cleanser performance and identify common formulation challenges.

Core Learning Areas

• Product Evaluation
• Foam Assessment
• Viscosity Considerations
• Product Stability
• Troubleshooting Principles

Core Learning Areas

- Sulfate-Free Technologies
- Alternative Surfactant Systems
- Performance Characteristics
- Formulation Considerations

6.11 Cleanser Evaluation & Troubleshooting

Description: Develop the ability to assess cleanser performance and identify common formulation challenges.

Core Learning Areas

- Product Evaluation
- Foam Assessment
- Viscosity Considerations
- Product Stability
- Troubleshooting Principles

MODULE 7: FACIAL CARE FORMULATION SYSTEMS

Module Overview

This module introduces students to the formulation principles behind modern facial skincare products. Students will learn how different facial care systems are designed, how ingredient selection influences product performance, and the formulation considerations required to create effective leave-on skincare products.

7.01 Introduction to Facial Care Formulation

Description: Develop an understanding of facial skincare product categories and their role within modern skincare routines.

Core Learning Areas

- Facial Care Product Categories
- Product Functions
- Leave-On Formulation Systems
- Product Selection Principles
- Consumer Expectations

7.02 Toner Formulation Principles

Description: Learn the formulation principles involved in developing facial toners for different skincare needs.

Core Learning Areas

- Toner Systems
- Hydrating Toners

• Balancing Toners
• Product Performance
•Formulation Considerations
considerations associated with essence-based skincare products.

Core Learning Areas

• Essence Systems
• Lightweight Hydration
• Product Functionality
• Ingredient Selection
• Consumer Applications

Pratical Formulation Projects

- Hydra dew essence
- Skin balance essence
- Botanical infusion toner
- Calming recovery mist
- Aqua refresh essence

7.04 Serum Formulation Principles

Description: Explore the formulation concepts behind high-performance serum products.

Core Learning Areas

• Serum Systems
• Active Ingredient Integration
• Product Performance
• Formulation Strategies

7.05 Gel Formulation Systems

Description: Learn the principles involved in developing gel-based skincare products.

Core Learning Areas

- Gel Systems
- Gelling Agents
- Product Structure
- Texture Development
- Performance Characteristics

Pratical Formulation Projects

- Barrier restore serum
- Hydrafusion moisture serum
- Radiance corrective serum
- peptide renewal serum
- Clarity balance serum

7.06 Face Moisturizer Formulation Principles

Description: Explore the formulation principles behind facial moisturizers and hydration-support products.

Core Learning Areas

- Hydration Systems
- Moisturization Principles
- Barrier Support
- Product Performance
- Ingredient Selection

Product Formulation Projects

- Radiance corerrective facial moisturizer
- Aqua silk gel
- Biome Facial moisturizer
- Ceramide recovery facial moisturizer
- Barrrier defence facial moisturizer

Facial Exfoliant Formulation Principles

Description: Learn the principles of formulating facial exfoliants for different skin types using appropriate exfoliating systems, functional ingredients, and formulation techniques to achieve safe and effective product performance.

Core Learning Areas

Introduction to Facial Exfoliation
Classification of Facial Exfoliants
Exfoliation Systems & Technologies
Exfoliating Ingredient Selection
Skin Type Compatibility
Formulation Design & Stability
Product Performance

Practical Formulation Projects

- Gentle Polish Facial Scrub
- Radiance Renewal Facial Polish
- Hydra Smooth Facial Exfoliant
- Enzyme Renewal Exfoliant

Core Learning Areas

- Facial Mask Systems
- Mask Classification
- Functional Ingredient Selection
- Skin Type Compatibility
- Formulation Design
- Stability & Product Performance

Product Formulation Projects

- Purifying clay mask
- Calming botanical mask
- Radiance renewal creamy mask
- Hydra recovery gel mask

7.07 Active Ingredient Integration

Description: Understand the considerations involved in incorporating functional ingredients into facial skincare products.

Core Learning Areas

• Active Ingredient Selection
• Compatibility Considerations
• Usage Rate Awareness
• Product Performance
• Formulation Planning

7.09 Product Texture & Sensory Characteristics

Description: Learn how texture, spreadability, and skin feel contribute to product acceptance and performance.

Core Learning Areas

- Texture Evaluation
- Product Feel
- Spreadability
- Absorption Characteristics
- Consumer Experience

7.10 Facial Product Evaluation

Description: Develop the ability to assess the quality and performance of facial skincare products.

Core Learning Areas

- Product Assessment
- Stability Observation
- Appearance Evaluation
- Performance Assessment
- Product Improvement

7.11 Product Troubleshooting Fundamentals

Description: Understand common formulation challenges associated with facial skincare products and methods for addressing them.

Core Learning Areas

- Product Instability
- Texture Issues
- Appearance Defects
- Performance Challenges
- Corrective Measures

MODULE 8: BODY CARE FORMULATION SYSTEMS

Module Overview

This module introduces students to the formulation principles behind body care products. Students will learn how different body care systems are designed, how ingredient selection influences product performance, and the formulation considerations required to create effective products for hydration, nourishment, protection, and skin maintenance.

8.01 Introduction to Body Care Formulation

Description: Develop an understanding of body care product categories and their role in supporting skin health and consumer needs.

Core Learning Areas

- Body Care Product Categories
- Product Functions
- Consumer Needs
- Product Selection Principles
- Product Performance Considerations

8.02 Body Lotion Formulation Principles

Description: Learn the formulation principles involved in developing lightweight body moisturizing products.

Core Learning Areas

- Lotion Systems

• Moisturization Principles
• Product Performance
• Ingredient Selection
• Consumer Applications

8.03 Body Cream Formulation Principles

Description: Understand the formulation considerations associated with richer moisturizing body products.

Core Learning Areas

• Cream Systems
• Product Structure
• Hydration Support
• Texture Characteristics
• Product Performance

Product Formulation Projects

- Even tone body lotion
- Hydra silk body lotion
- Skin conditioning body cream
- Barrier care body lotion
- Nourishing body milk

8.04 Body Butter Formulation Principles

Description: Explore the formulation principles behind modern body butter systems and intensive moisturizing products.

Core Learning Areas

- Body Butter Systems
- Emulsified Body Butters
- Anhydrous Body Butters
- Texture Development
- Product Performance

Product Formulation Projects

- Intensive moisture body butter
- whipped body soufflé
- Radiance renewal body butter
- Barrier recovery body butter
- Skin conditioning body butter

8.05 Body Oil Formulation Principles

Description: Understand the role of oils and oil-based systems in body care formulation.

Core Learning Areas

- Oil-Based Formulations
- Oil Selection Principles
- Skin Conditioning
- Product Performance
- Consumer Experience

Product Formulation Projects

- Luminious body oil
- Even tone body oil
- Radiance body elixir
- Nourishing body oil
- Silken body oil

8.06 Body Scrub Formulation Principles

Description: Learn the formulation concepts involved in developing exfoliating body care products.

Core Learning Areas

• Physical Exfoliation Systems
• Exfoliating Materials
• Product Structure
• User Experience
• Product Performance

Product Formulation Projects

- Whipped Body Soufflé Scrub
- Radiance Renewal Body Polish
- Botanical Therapy Polish
- luxe Cream Polish
- Mineral Renewal Polish
- Hydra Smooth Body Polish

8.07 Body Balm Formulation Principles

Description: Explore the formulation considerations involved in developing protective and conditioning body balms.

Core Learning Areas

- Balm Systems
- Protective Formulations
- Product Texture
- Ingredient Selection
- Product Applications

Practical Formulation Projects

- Barrier Repair Body Balm
- Nourishing Shea Balm
- Intensive Moisture Balm
- Radiance Body Balm

8.08 Hand & Foot Care Formulation Principles

Description: Understand the formulation requirements of products designed for hands and feet.

Core Learning Areas

- Hand Care Systems
- Foot Care Systems
- Moisturization Principles
- Product Performance
- Consumer Needs

8.09 Product Texture & Sensory Characteristics

Description: Learn how texture, spreadability, absorption, and skin feel influence product quality and user satisfaction.

Core Learning Areas

- Texture Evaluation
- Product Feel
- Spreadability
- Absorption Characteristics
- Consumer Experience

8.10 African Black Soap Formulation Principles

Description: Explore the principles of African black soap formulation, ingredient selection, and product customization for modern skincare and body care applications.

Core Learning Areas

- Introduction to African Black Soap
- Traditional Raw Materials & Ingredient Functions
- African Black Soap Systems
- Formulation Design & Customization
- Skin Type Compatibility
- Product Performance & Consumer Applications

Product Formulation Projects

- Botanical elixir blacksoap
- Purifying blacksoap
- Even tone blacksoap
- luxe botanical blacksoap
- Radiance blacksoap

8.11 Body Care Product Evaluation

Description: Develop the ability to assess the quality, appearance, and performance of body care products.

Core Learning Areas

• Product Assessment
• Appearance Evaluation
• Stability Observation
• Performance Assessment
• Product Improvement

8.12 Product Troubleshooting Fundamentals

Description: Understand common formulation challenges associated with body care products and methods for addressing them.

Core Learning Areas

• Product Instability
• Texture Issues
• Product Defects
• Performance Challenges
• Corrective Measures

MODULE 9: TREATMENT-FOCUSED FORMULATION SYSTEMS

Module Overview

This module introduces students to the formulation principles behind targeted skincare products designed to address specific skin concerns. Students will learn how to select appropriate ingredients, understand formulation considerations, and develop products intended to support different skin conditions and skincare goals.

9.01 Introduction to Treatment-Focused Formulation

Description: Develop an understanding of treatment-focused skincare products and their role in addressing consumer skincare concerns.

Core Learning Areas

- Treatment Product Categories
- Consumer Needs Assessment
- Targeted Skincare Approaches
- Product Selection Principles
- Product Performance Considerations

9.02 Hydration & Dehydrated Skin Formulation Principles

Description: Understand the formulation considerations involved in developing products designed to support skin hydration.

Core Learning Areas

- Hydration Support Systems
- Moisture Retention Principles
- Product Performance
- Ingredient Selection
- Consumer Applications

9.03 Hyperpigmentation Formulation Principles

Description: Explore the formulation approaches commonly associated with products designed for uneven skin tone and discoloration.

Core Learning Areas

- Hyperpigmentation Fundamentals
- Brightening Product Categories
- Formulation Considerations
- Product Performance
- Ingredient Selection Principles

9.04 Acne Care Formulation Principles

Description: Learn the formulation considerations involved in developing products intended for acne-prone skin.

Core Learning Areas

- Acne-Prone Skin Considerations
- Product Categories • Skin Compatibility
- Formulation Strategies
- Product Performance

9.05 Sensitive Skin Formulation Principles

Description: Understand the formulation requirements associated with products designed for sensitive skin.

Core Learning Areas

- Sensitive Skin Considerations
- Ingredient Selection
- Mild Formulation Approaches
- Product Compatibility
- Consumer Needs

9.06 Barrier Support Formulation Principles

Description: Explore formulation approaches intended to support and maintain healthy skin barrier function.

Core Learning Areas

- Barrier Support Systems
- Moisturization Principles
- Skin Protection Concepts
- Product Performance
- Formulation Considerations

9.07 Healthy Ageing Formulation Principles

Description: Understand the formulation concepts associated with products designed to support mature skin.

Core Learning Areas

- Mature Skin Considerations
- Product Categories

• Hydration Support
• Product Performance
• Consumer Expectations

9.08 Product Claims & Marketing Considerations

Description: Develop an understanding of responsible product positioning and communication within the skincare industry.

Core Learning Areas

• Product Claims
• Marketing Language
• Consumer Communication
• Ethical Considerations
• Product Positioning

MODULE 10: PRESERVATION, STABILITY TESTING & PRODUCT EVALUATION

Module Overview

This module introduces students to the principles of cosmetic preservation, product stability, and product evaluation. Students will learn how to protect formulations from contamination, assess product quality, identify instability issues, and evaluate product performance to support the development of safe and effective skincare products.

10.01 Introduction to Cosmetic Preservation

Description: Develop an understanding of preservation systems and their role in maintaining product safety and integrity.

Core Learning Areas

- Preservation Fundamentals
- Product Protection Principles
- Microbial Contamination Risks
- Preservation Strategies
- Consumer Safety Considerations

10.02 Cosmetic Microbiology Fundamentals

Description: Understand the relationship between microorganisms and cosmetic products.

Core Learning Areas

- Cosmetic Microbiology Basics
- Sources of Contamination
- Microbial Growth Factors
- Product Safety Considerations
- Contamination Prevention

10.03 Preservative Systems & Selection Principles

Description: Learn the principles involved in selecting appropriate preservative systems for cosmetic formulations.

Core Learning Areas

- Preservative Categories
- Preservative Selection
- Product Compatibility
- Preservation Requirements
- Formulation Considerations

10.04 Preservative Compatibility & Formulation Considerations

Description: Understand the factors that influence preservative performance within cosmetic formulations.

Core Learning Areas

- Compatibility Principles
- pH Considerations
- Ingredient Interactions

• Preservation Challenges
• Product Performance

10.05 Introduction to Stability Testing

Description: Develop an understanding of stability testing and its importance in skincare formulation.

Core Learning Areas

• Stability Fundamentals
• Stability Objectives
• Product Shelf-Life Concepts
• Product Monitoring
• Stability Assessment Principles

10.06 Physical Stability Evaluation

Description: Learn how to assess the physical stability of cosmetic products.

Core Learning Areas

• Appearance Evaluation
• Colour Changes
• Odour Changes
• Texture Assessment
• Phase Separation Observation

10.07 Environmental Stress Testing

Description: Understand how environmental conditions can affect product stability and performance.

Core Learning Areas

- Temperature Effects
- Light Exposure
- Storage Conditions
- Product Behaviour
- Stability Monitoring

10.08 Product Performance Evaluation

Description: Develop the ability to evaluate how cosmetic products perform during use.

Core Learning Areas

- Product Functionality
- Sensory Assessment
- User Experience
- Product Consistency
- Performance Monitoring

10.09 Product Defects & Troubleshooting

Description: Understand common product defects and methods for identifying their causes.

Core Learning Areas

- Product Defects
- Stability Failures
- Texture Problems
- Appearance Changes
- Corrective Measures

10.10 Shelf-Life & Product Storage Principles

Description: Learn the principles associated with product shelf-life and storage recommendations.

Core Learning Areas

- Shelf-Life Concepts
- Storage Requirements
- Product Longevity
- Packaging Considerations
- Product Integrity

10.11 Product Evaluation Documentation

Description: Understand the importance of recording and documenting product evaluation results.

Core Learning Areas

- Stability Records
- Product Evaluation Forms
- Observation Logs
- Documentation Standards
- Record Management

10.12 Practical Stability & Evaluation Projects

Description: Apply preservation and stability principles through practical product assessment activities.

Core Learning Areas

- Product Stability Assessment Project

- Preservation Evaluation Project
- Product Observation Exercise
- Product Defect Analysis Exercise
- Stability Documentation Exercise

MODULE 11: COSMETIC PACKAGING, LABELING & REGULATORY AWARENESS

Module Overview

This module introduces students to cosmetic packaging, labeling requirements, product presentation, and regulatory awareness within the skincare industry. Students will learn how packaging influences product protection and consumer perception, understand essential labeling requirements, and develop awareness of cosmetic compliance principles, product claims, and regulatory expectations in local and international markets.

11.01 Introduction to Cosmetic Packaging

Description: Develop an understanding of the role and importance of packaging in cosmetic products.

Core Learning Areas

- Packaging Fundamentals
- Functions of Packaging
- Product Protection
- Consumer Experience
- Packaging Considerations

11.02 Types of Cosmetic Packaging

Description: Explore the various packaging formats commonly used in skincare products.

Core Learning Areas

- Bottles
- Jars
- Tubes
- Airless Packaging
- Specialty Packaging Systems

11.03 Packaging Material Selection

Description: Understand the characteristics and applications of different packaging materials used in cosmetic products.

Core Learning Areas

- Plastic Packaging
- Glass Packaging
- Aluminum Packaging
- Material Characteristics
- Packaging Selection Principles

11.04 Packaging Compatibility Principles

Description: Learn the factors that influence compatibility between formulations and packaging materials.

Core Learning Areas

- Packaging Compatibility
- Product Interaction • Material Performance
- Stability Considerations
- Product Integrity

11.05 Packaging for Different Product Categories

Description: Understand packaging considerations for various skincare product types.

Core Learning Areas

- Cleanser Packaging
- Serum Packaging
- Moisturizer Packaging
- Body Care Packaging
- Treatment Product Packaging

11.06 Product Filling & Packaging Procedures

Description: Learn the principles involved in filling and packaging cosmetic products professionally.

Core Learning Areas

- Filling Procedures
- Packaging Preparation
- Product Handling
- Packaging Workflow
- Quality Considerations

11.07 Cosmetic Labeling Fundamentals

Description: Develop an understanding of cosmetic labeling and its importance in product presentation and compliance.

Core Learning Areas

- Labeling Principles

• Product Information
• Consumer Communication
• Product Identification
• Label Design Considerations

11.08 Cosmetic Label Information Requirements

Description: Explore the information commonly required on cosmetic product labels.

Core Learning Areas

• Product Identity
• Ingredient Declaration
• Directions for Use
• Storage Instructions
• Batch Identification

11.09 Product Claims & Marketing Language

Description: Understand the principles of responsible product claims and consumer communication.

Core Learning Areas

• Cosmetic Claims
• Marketing Language
• Consumer Communication
• Claim Limitations
• Ethical Product Promotion

11.10 Cosmetic Compliance & Regulatory Awareness

Description: Develop awareness of the regulatory framework governing cosmetic products and responsible product commercialization.

Core Learning Areas

- Cosmetic Compliance Principles
- NAFDAC Regulatory Awareness
- Cosmetic Product Registration Overview
- International Regulatory Awareness
- Professional Responsibilities

11.11 Product Presentation & Market Readiness

Description: Learn how product presentation contributes to professionalism, consumer trust, and market readiness.

Core Learning Areas

- Product Presentation
- Professional Appearance
- Consumer Perception
- Brand Consistency
- Market Readiness Principles

11.12 Practical Packaging, Labeling & Compliance Project

Description: Apply packaging, labeling, and regulatory awareness principles through practical product presentation exercises.

Core Learning Areas

- Packaging Selection Project
- Cosmetic Label Development Project
- Product Presentation Exercise
- Compliance Review Exercise
- Packaging Documentation Exercise

PROFESSIONAL PRACTICE & INDUSTRY READINESS

This section prepares learners for professional engagement within the cosmetic and personal care industry by introducing career pathways, workplace expectations, professional responsibilities, and opportunities for entrepreneurship within the field of skincare formulation. Learners will develop an understanding of how formulation knowledge can be applied in professional, commercial, and business environments while maintaining industry standards and ethical practices.

Core Learning Areas

- The Professional Role of a Cosmetic Formulator
- Career Opportunities in the Cosmetic and Personal Care Industry
- Professional Ethics and Conduct
- Working with Cosmetic Brands, Laboratories, and Manufacturers
- Professional Communication and Client Relations
- Introduction to Cosmetic Entrepreneurship
- Basic Product Costing and Pricing Principles
- Building a Professional Portfolio
- Personal Branding for Cosmetic Professionals

ASSESSMENT & CERTIFICATION

Assessment is designed to evaluate learners' understanding of skincare formulation principles, ingredient functionality, formulation techniques, and the practical application of cosmetic science concepts.

Assessment Methods:

- Theory Assessments
- Formulation Assignment
- Pratical Laboratory Exercise
- Case Studies
- Final Practical Assessment

Certification

Upon successful completion of all programme requirement and assessments, learners will be awarded the Professional Diploma In Skincare Formulation Science issued by Pearls Beauty Institute.