Continued Professional Development

DIPLOMA

IFEAT ACADEMY

UNIT 6:

KEY OPERATIONS AND CHEMICAL PROCESSES FOR NATURALS

8 Credits

80 Learning Hours

Unit Fee

IFEAT Members: £540

Non-Members: £680

Apply Here

icats.education

Unit Overview

In this unit, you'll explore how natural ingredients used in perfumery and flavouring are produced and refined. You'll learn the main extraction and distillation methods, along with purification steps that improve quality and consistency. You'll also look at newer biotechnological approaches and how production choices affect performance, safety, and regulatory compliance. Throughout the unit, you'll consider the real-world challenges of sourcing naturals responsibly, including sustainability, ethics, labour practices, and supply chain resilience. Equip yourself with the skills to innovate and excel in the global market with this in-depth, professionally focused unit.

Further Information

education@ifeat.org

icats.education

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The IFEAT Academy is endorsed by the following:

University of Reading

ifra UNITED KINGDOM

the UK flavour association

perfumer & flavorist

The Resource for Sensory & Wellness Innovation

British Society of Perfumers

UNIT 6:

KEY OPERATIONS AND CHEMICAL PROCESSES FOR NATURALS

What's included?

Flexible Learning

Tutor Support

iCATS Learning Pack

Unit Aims

By the end of the unit you will be able to::

- *Develop an understanding of the key operations, chemical processes and technologies used in the production and purification of natural aroma materials.*
- *Evaluate sustainability, socio-economic, and ethical considerations associated with natural aroma sourcing and production.*
- *Apply scientific and technical knowledge to real-world fragrance and flavour applications, innovation, and product development.*

UNIT LEARNING OUTCOMES

Explain and analyse the key extraction, distillation, purification, and biotechnological processes used to produce natural aroma materials, and how these processes influence quality, yield and consistency.	Evaluate the environmental, social, economic, and ethical implications of producing natural aroma materials, including sustainability, labour practices, and supply chain resilience.	Gain an understanding of practical knowledge of distillation, expression, and solvent extraction techniques.	Apply knowledge of production methods and material behaviour to fragrance and flavour applications, considering performance, stability, safety, and regulatory requirements.	Analyse and integrate scientific, technological, and market-driven factors to support innovation, sustainability, and responsible decision-making in the aroma trades.

Combine units for an IFEAT Certificate

This Unit
Unit 6 = 8 Credits

Other Units
+ 52 Credits

Earn an IFEAT Certificate!
60 Credits

Combine units for an IFEAT Diploma

This Unit
Unit 6 = 8 Credits

Other Units
+ 112 Credits

Earn an IFEAT Diploma!
120 Credits

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