



Insects Innovation in Gastronomy

COURSE SUPPORT



Module 3 Unit 3:

Regulations for the Consumption of Insects in Europe

Disclaimer:

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Environmental Sustainability in Gastronomy

Contents

Module 3: Environmental Education in Gastronomy.....	1
Unit 3: Regulations for the Consumption of Insects in Europe.....	1
Key Insights & Takeaways.....	1
The EU's Readiness for Insect Farming.....	1
Existing Regulations Supporting Insect Farming	1
Insect Farms in Europe	2
Sustainability and Future Considerations.....	2
Final Thought.....	3

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Module 3 Unit 3: Regulations for the Consumption of Insects in Europe

Module 3: Environmental Education in Gastronomy

Unit 3: Regulations for the Consumption of Insects in Europe

Key Insights & Takeaways

- The European Union has been prepared to integrate insect farming into food production since 2015 through legislative frameworks.
- Existing regulations such as Global Good Agricultural Practices and ISO 22000 already include insect production.
- Insect farming reduces the need for agricultural land, labour, and traditional animal farming space.
- Vertical farms in Europe, particularly in France, maximize land efficiency while minimising environmental impact.
- The adoption of insect farming aligns with environmental sustainability goals, reducing carbon footprints and water consumption.

The EU's Readiness for Insect Farming

Since 2015, the European Union has taken significant steps to regulate and integrate insect farming into its food system. The adoption of new food legislation has paved the way for insect-based products to be recognized as a viable protein source.

The use of organic waste as insect feed and composting methods have further strengthened the sustainability of this sector. With these approaches, insect farming requires fewer fertilizers and land, addressing key sustainability concerns.

Existing Regulations Supporting Insect Farming

The EU has not needed to introduce entirely new legislation for insect production, as existing frameworks already include them:

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Module 3 Unit 3: Regulations for the Consumption of Insects in Europe

- **Global Good Agricultural Practices (GAP):** Ensures sustainable and safe farming practices.
- **ISO 22000:** Establishes standards for food safety management, covering insect-based food production.

These regulations ensure that insect farming aligns with consumer safety, trade standards, and environmental sustainability.

Insect Farms in Europe

While insect farming has been well-established in Asian countries like Thailand, Europe has seen the emergence of innovative farming methods. One of the most significant developments is the rise of vertical farms, particularly in France. These farms optimize space by stacking production units upwards, much like apartment buildings, instead of expanding horizontally.

Vertical farming not only reduces land use but also enhances energy efficiency by incorporating natural energy sources such as sunlight, rain, and wind. These advancements contribute to further lowering the carbon footprint of insect production.

Sustainability and Future Considerations

The adoption of insect-based food production in Europe directly addresses sustainability concerns:

- Reducing deforestation and land use for farming.
- Lowering water consumption compared to traditional livestock.
- Cutting greenhouse gas emissions by minimizing methane and carbon dioxide production.

Ultimately, the shift towards insect-based protein supports the EU's environmental sustainability initiatives, aligning with the broader movement towards reducing agriculture's ecological footprint.



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Final Thought

As insect farming continues to gain acceptance in Europe, legislative frameworks and innovative farming techniques will play a crucial role in ensuring its success. The future of insect-based food production lies in embracing regulatory support, technological advancements, and environmental sustainability to create a viable, eco-friendly alternative to traditional protein sources.