

Course 2 — Completion Checklist

Advanced Bioactive Systems & Euro Vivarium Construction

This checklist confirms readiness, not perfection. Learners should be able to justify decisions, identify risk, and design defensible systems in professional and inspection-aware contexts.

Species-Led Design

- Design enclosures from species biology and behaviour
- Translate behaviour into structure and gradients
- Justify design decisions from a welfare perspective

Euro Vivarium Construction & Safety

- Select safe, durable materials
- Understand sealing, curing, and waterproofing
- Identify structural risks from weight and moisture

Ventilation & Airflow Engineering

- Design intentional airflow patterns
- Diagnose dead zones and stagnant air

Drainage & Water Management

- Design serviceable drainage systems
- Recognise anaerobic saturation and delayed failures

Lighting & UVB

- Design lighting systems with gradients
- Make evidence-based UVB decisions and document them

Heat & Humidity Control

- Manage gradients at scale
- Treat humidity as a dynamic parameter

Planting & Longevity

- Plan for 12–24 months of growth

- Manage roots, pruning, and renewal

Microfauna Dynamics

- Diagnose population booms and crashes
- Recover balance without full resets

Failure & Rebuild Strategy

- Distinguish cosmetic issues from failure
- Apply observe → correct → intervene logic
- Redesign systems after failure

Professional Readiness

- Justify and document decisions
- Demonstrate inspection-aware reasoning

Completion of Course 2 indicates readiness to design, assess, and manage advanced bioactive Euro vivariums using welfare-led, evidence-based reasoning.