



# Beaver Institute, Inc.

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## BeaverCorps Nonbusiness Track Training Syllabus

### Part 1 Coursework

#### Unit 1- Introduction to Beaver Conflicts and Job Safety

- Beaver Basics: History, Biology, Behavior, Benefits
- Job Safety
- Tree Protection Techniques
- Beaver Dam Conflicts
- Breaching Dams and Opening Culverts
- Unit 1 Quiz

#### Unit 2 - Beaver Conflict Resolution Techniques

- Flow Devices: Culvert Fences
- Flow Devices: Pond Leveler Pipes
- Flow Devices: Fence and Pipe Device
- Flow Devices: Dam Spillway and Retention Pond Devices
- Flow Devices: Multi-intake Pond Leveler
- Flow Devices: Beaver Mimicry Dams and Fences
- Unit 2 Quiz

#### Unit 3 - Beaver Habitat Restoration

- Process-based Restoration Overview
- Unit 3 Quiz

#### Unit 4 - Site Assessment and Data Collection

- Introduction to Site Assessments
- Site Assessment Basics
- Initial Contact
- Pricing
- Data Collection
- Downstream Considerations
- Additional Considerations
- Analysis and Proposal
- When to Trap
- Cost Estimate
- Pipe Sizing and Lessons Learned

- Unit 4 Quiz

#### Units 5 - Regulations and Adaptive Management

- Flow Device Replacement
- Recommended Tools and Materials
- Wildlife Passage Design
- Beaver Trapping
- Wetland Permitting
- Unit 5 Quiz

#### Unit 6 - Partnerships and Funding

- Public Outreach
- Partnerships and Funding
- Unit 6 Quiz

#### Final Exam

Once a student passes the final exam they will graduate from the BeaverCorps Training Course and receive a Certificate of Completion for the completed coursework.

#### **Part 2 Mentored Installations**

Each trainee will complete every aspect of a flow device project. Each flow device project will be mentored remotely by Beaver Institute instructors, offering advice as needed. The trainee will be responsible for identifying and making the arrangements necessary to install 4 flow devices in their region, with guidance and advice from Mike Callahan and other Beaver Institute instructors.

Mentoring will be available as needed during and after each project, including:

- Site assessments
- Data Collection and Analysis
- Submitting your Proposal with Cost Estimates
- Flow device construction and installation
- Long-term follow-up and Maintenance
- Troubleshooting

Once the student has successfully installed 4 flow devices, and both they and their mentor feel they are ready to begin working on their own, the student will receive a Certificate of Completion and become a Certified Beaver Wetland Professional.