



**School of Agriculture
Trades & Environment**

BK 101 BASIC APIARY & FIELD SKILLS 2(0-0-4) 8 WEEKS; 32 HOURS

COURSE OUTLINE – JANUARY 2012

INSTRUCTOR: TBA **PHONE:** TBA

OFFICE: TBA **E-MAIL:** TBA

OFFICE HOURS: TBA

REQUIRED TEXT/RESOURCE MATERIALS:

WHIMIS, OFA, Forklift, Commercial Driving Manuals

RECOMMENDED READINGS:

CALENDAR DESCRIPTION:

This course addresses the practical skills needed for day-to-day commercial beekeeping operations. These include safety, truck & forklift driving and maintenance, loading and tying a truck, preparing brood chambers and assembling supers.

CREDIT/CONTACT HOURS:

This course consists of 4 lab hours a week for 8 weeks; a total of 32 hours.

DELIVERY MODE S:

The course work includes demonstrations and hands-on lab activities, class participation, and assignments as set by instructor.

OBJECTIVES:

1. Introduce students, by hands-on experience, to the basic, every day skills required at a commercial apiary.
2. Ensure basic safety as related to machines and work at a commercial apiary.

PROPOSED EVALUATIONS:

Class Participation	50%
Assignments & Practical Assessments	50%

STUDENT RESPONSIBILITIES:

- Students are expected to be on-time and present to complete this course. Requests to reschedule assignments or assessments will only be granted under extraordinary circumstances.
- Students must follow all safety guidelines and procedures.

CONTENT OUTLINE:

- Basic safety for apiary & field work (includes handling chemicals, introductory WHMIS, respiratory fit training, handling machinery, driving/road safety, etc)
- Training & experience with 3-ton Trucks and Fork Lifts
- Basic maintenance for Truck and Fork Lift
- Loading and Tying a Truck
- Maintenance of Bee Equipment

Skills

- **Safety**
 - WHMIS Certification (possibly online?)
 - Training and supervision of employees (link to BK310)
 - Occupational First Aid
 - Back Injury prevention
 - Allergic reactions
- **Heavy Truck (1 – 3 ton)**
 - What is GVW
 - Maintenance – safety inspection (pre-trip), selecting tires, basic maintenance (oil/lube/air/etc.)
 - Loading
 - Selecting Tie-downs (ropes, straps, etc), Load Rating and Safe Working Load
 - Tying down a load
 - Driving while loaded
- **Trailers**
 - GVW
 - Loading and Tying
 - Machine Loading
 - Brakes
 - Towing
- **Forklift**
 - Types of beekeeper forklifts (swinger, skid-steer, warehouse)

- Forklift driving
- Forklift operator's certificate
- **Welding**
 - Basic Introduction
- **Beekeeping (Introduction of beekeeping equipment here, more in depth in BK134)**
 - Parts of a hive
 - Pallets or bottom boards? (link to BK361, screened bottom boards)
 - Bee Suit and Tools
 - Maintenance, especially box repair
 - Box assembly, frame assembly, Wiring frames vs plastic foundation
 - Painting/dipping equipment
 - Wax handling/processing
 - Preparing supplemental feed

Rough Outline

- **Weeks 1**
 - Beekeeping Equipment, components, variety, assembly and painting.
- **Weeks 2 – 6**
 - Basic certificates
 - WHIMINS
 - Occupational First Aid
 - Forklift Certification
 - Safe loading
 - Driving instruction
 - Hands on hives
 - Sorting and storing equipment
 - Scraping/repairing boxes/frames
- **Weeks 7 – 8**
 - Painting and dipping hives produced in BK110
 - Wiring frames and embedding
 - Install plastic foundation Benefits/Costs
 - Wax handling, pre-processing (melt and settle/burlap sack)
 - Mixing pollen patties

Course will run 1 x 4-h blocks weekly