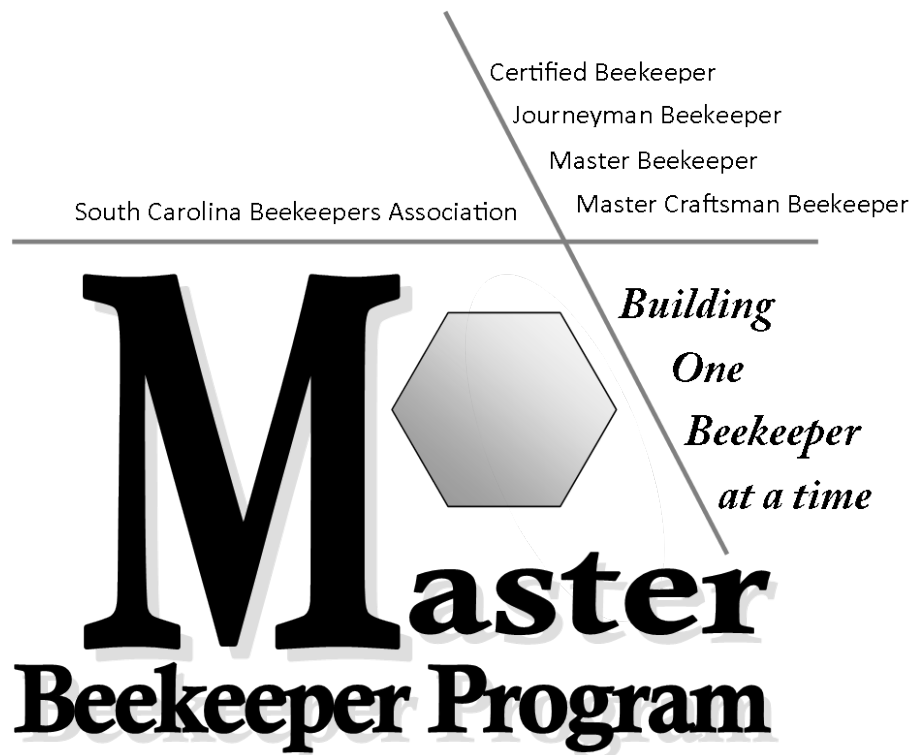


# South Carolina Master Beekeeper Program MANUAL



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*SCBA MBP Manual Update Completed October 2018*

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## Overview of the Master Beekeeper Program

The Master Beekeeper Program (MBP) is a five-year beekeeper training and certification program administered and provided by the South Carolina Beekeepers Association (SCBA). Entry into the program is attained by joining the SCBA and an affiliated local bee association, attending a Certified Class, and passing the Certified examinations. There is no age limit for entry into the program although the examinations may be too difficult for children under 12 years of age. All candidates must enter the program at the Certified Beekeeper Level and are not permitted to skip levels. Beginning level certifications obtained in other states may be considered by the MBP Committee for entry into the program, however, no reciprocal certifications will be issued based on achievement in other programs. Please see [APPENDIX H Reciprocal Certification Recognition Policy](#) for complete Reciprocity Policy.

The SCBA Master Beekeeper Program (MBP) offers four levels of training and advancement: Certified Beekeeper, Journeyman Beekeeper, Master Beekeeper, and Master Craftsman Beekeeper. All ranks take a minimum of 1 full year between levels to complete with the exception of the Master Level, which takes 2 years. Opportunities for advancement in the program occur on exam day and upon meeting all the requirements for the level of advancement desired.

The foundation of the training and examination consists of two parts at the Certified Level: a written and a practical examination. A Public Service Credit requirement is added to the testing requirement at the Journeyman Level. Additionally, Major/Core Credits are added at the Master Level and finally, Communication Skills, an Oral Exam, and a Research Project are added at the Master Craftsman Level. Each beekeeper is encouraged to compile the required components for the level desired in a personal Beekeeping Portfolio [APPENDIX G Program Status and Portfolio Documentation Guidelines](#) to be submitted to the MBP Committee for review prior to testing. Please see

[APPENDIX F Examinations and Fees](#) for examination information.

The presentation of Certified Certificates will be awarded by the candidate's local club throughout the year as achievement is made. The presentation of Journeyman, Master, and Master Craftsman Certificates will be awarded at the next occurring SCBA Spring or Summer Conference. Attendance at a conference is not required to receive certification, but is highly encouraged.

The requirements to achieve each level of the SCBA Master Beekeeper Program are listed in detail on the next several pages. It is important that candidates read the requirements closely and make certain that all requirements are met in order to advance in the program. Additional Program stipulations are listed in Appendixes A-I with necessary forms listed in [APPENDIX J PROGRAM FORMS](#). Adequate documentation is critical.

If at any point you wish to discontinue the program, please contact the SCBA Master Beekeeper Program directly via email at [scmasterbeekeeper@gmail.com](mailto:scmasterbeekeeper@gmail.com). Please also be sure to keep your current mailing address, email address, and phone number updated in the members only section at [www.scstatebeekeepers.com](http://www.scstatebeekeepers.com) as we do use all methods to contact you for various reasons throughout your enrollment in the SCBA Master Beekeeper Program.

**Requirements for Each Level:** (click the link below to go to that section)

[CERTIFIED Level Beekeeper:](#)

[MASTER Level Beekeeper:](#)

JOURNEYMAN Level Beekeeper:MASTER CRAFTSMAN Level Beekeeper:**CERTIFIED Level Beekeeper:**

- A. Must be a current member of the South Carolina Beekeepers Association.
- B. Must own or manage at least 1 colony of honey bees for a minimum of 1 year. Special exceptions to this rule may be considered by the MBP Committee.
- C. Must score a 70% or higher on the written examination administered by an approved SCBA Journeyman, Master, or Master Craftsman Beekeeper (see

APPENDIX F Examinations and Fees). The written test *may* include but is not limited to materials covered during previous certified classes and books/other literature on the Certified Beekeeper reading list (see APPENDIX A Suggested BEEKEEPING READING LIST).

- D. Must score a "PASS" on the practical examination administered by an approved SCBA Journeyman, Master, or Master Craftsman Beekeeper. The practical examination *may* include but is not limited to being able to describe the physical parts of a beehive (common terms); light and properly use a smoker; recognize the various stages of brood, different castes of bees, and find or at least describe the queen; differentiate between brood, pollen, capped honey; recognize propolis and describe its functions; describe the layout of a brood nest (placement of honey, pollen, and brood), etc.

**JOURNEYMAN Level Beekeeper:**

- A. Must be a current South Carolina Beekeeping Association Member. Must have held the Certified Beekeeper level for at least *1 full calendar year* and should have been a practicing beekeeper for a minimum of 2 years with 1 year *after* the completion of the Certified Level. Special exceptions to this rule may be considered by the MBP Committee.

- B. Must score 80% or higher on the written examination administered by an approved SCBA Journeyman, Master, or Master Craftsman Beekeeper (see

APPENDIX F Examinations and Fees). The written test *may* include but is not limited to materials covered on the Certified Level, plus material covered during previous Journeyman classes, and books/other literature on the Journeyman Beekeeper reading list (see APPENDIX A Suggested BEEKEEPING READING LIST). This examination will cover more information than that required at the Certified Beekeeper Level. The testable material will closely adhere to information taught in the Journeyman training modules.

- C. Must score 80% or higher on a practical examination administered by the SCBA MBP Committee. The practical examination *may* include but is not limited to: identifying pests, parasites and pathogens; reading pesticide labels and determining which is the safest to use around bees; identifying several beekeeping items; examining honey labels for errors; distinguishing between bees, wasps, hornets, etc.;

identifying anatomical structures of a bee, flower, etc.; judging honey for competition; and/or demonstrating basic intermediate beekeeping skills.

D. Must perform *and be able to document participation* in 5 Public Service Credits (see [APPENDIX B](#) Public Service Credit Requirements). Two items of supporting documentation are required for EACH Public Service Credit. The Public Service Credit Documentation Form is only a *supporting* document and should not be the *only* evidence of a completed PSC.

### **MASTER Level Beekeeper:**

A. Must be a current South Carolina Beekeeping Association Member. Must have held the Certified and Journeyman Beekeeper levels 1 year each and should have been a practicing beekeeper for at least 3 years. Special exceptions to this rule may be considered by the MBP Committee.

B. Must *demonstrate/document* 10 additional Public Service Credits *beyond that required for the Journeyman Beekeeper level*. Two items of supporting documentation are required for EACH Public Service Credit. The Public Service Credit Documentation Form is only a *supporting* document and should not be the *only* evidence of a completed PSC (see [APPENDIX B](#) Public Service Credit Requirements).

C. Choose and *declare* major (see [APPENDIX C](#) Majors and Credit Requirements

*Major must be declared to the MBP Director/Committee before beginning work towards Master Beekeeper status.*) and *demonstrate/document* expertise in 3 of 10 credits within that declared major. We refer to these as "**major credits**."

D. Must *demonstrate/document* expertise in 5 credits outside your major. We refer to these as "**core credits**". These core credits may be chosen from [APPENDIX D](#) Core Credits OR you may choose credits from other majors (other than your declared major) to fulfill your core credits. A single submission may only be counted ONCE for credit and may not receive dual credit within multiple areas (PSC, major/core credits).

E. Must score 80% or higher on a written examination (see

[APPENDIX F](#) Examinations and Fees) administered by the MBP Committee which will include a lab portion (practical). The written examination *may* include but is not limited to materials covered on previous levels, material presented during previous lectures and/or books/other literature on the Beekeeper Reading List (see [APPENDIX A](#) Suggested BEEKEEPING READING LIST).

### **MASTER CRAFTSMAN Level Beekeeper:**

A. Must be a current South Carolina Beekeeping Association Member. Must have held the Master Beekeeper rank for at least 2 years and should have been a beekeeper at least 5 years.

Special exceptions to this rule may be considered by the MBP Committee.

B. Must have 15 additional Public Service Credits beyond that required for a Master Beekeeper (see [APPENDIX B](#) Public Service Credit Requirements). "Extra" public service credits obtained while certifying for the Master Beekeeper Level cannot be applied to the 15 total public service credits needed to achieve Master Craftsman Status. These credits must be earned following the completion of the Master Level.

C. Must satisfy 5 additional new credits toward your declared major for a total of 8 credits toward major – 3 credits were completed in the Master Beekeeper level. We refer to these as "**major credits**" (see [APPENDIX C](#) Majors and Credit Requirements *Major must be declared to the MBP Director/Committee before beginning work towards Master Beekeeper status.*). If candidate changes major, he/she must re-declare new major with the MBP Committee, and still satisfy 8 total credits toward new major unless previously acquired credits overlap with new major.

D. Must demonstrate expertise in 8 additional new credits outside your major for a total of 13 credits outside major – 5 credits were completed in the Master Beekeeper level. We refer to these as "**core credits**". These credits can be chosen from [APPENDIX D](#) Core Credits. In addition to this, you may choose credits from other majors (other than your declared major) to fulfill your core credits. A single submission may only be counted ONCE for credit and may not receive dual credit within multiple areas (PSC, major/core credits).

E. Must demonstrate Communication Skills (see [APPENDIX E](#) Communication Skills Applicable for Master Level Only).

F. Must pass an oral examination. Nominee is tested by at least three individuals on the review board appointed by the Master Beekeeping Program Committee. The candidate is tested on one specific area of his or her choice (major), the research project, as well as on general knowledge of those areas related to honey bees and beekeeping.

G. Must complete an approved Research Project. Please see [APPENDIX I](#) RESEARCH PROJECT – Master Craftsman Level Only for guidelines.

## Summary of Requirements needed to achieve each level in the South Carolina Master Beekeeper Program:

	<i>Registered Beekeeper</i>	<i>Written Exam</i>	<i>Practical Exam</i>	<i>Oral Exam</i>	<i>Public Service Credits</i>	<i>Core Credits</i>	<i>Major Credits</i>	<i>Research/ Extension Project</i>
<i>Certified</i>	x	x	x	-	-	-	-	-
<i>Journeyman</i>	x	x	x	-	5	-	- *	-
<i>Master</i>	x	x	x	-	10	5	3	x (project approval)
<i>Master Craftsman</i>	x	-	-	x	15	8	5	x
<i>Credit totals</i>	-	-	-	-	30(minimum)	13	8	-

## APPENDIX A Suggested BEEKEEPING READING LIST

### CERTIFIED Level

#### **Books:**

- 1) Honey Bees and Beekeeping: A Year in the Life of an Apiary, 3rd Edition – Keith Delaplane (2007)
- 2) The Beekeeper’s Handbook, 4th Edition – Diana Sammataro, Alphonse Avitabile, Dewey M. Caron (2011)
- 3) First Lessons in Beekeeping – Keith Delaplane (2007)
- 4) The Backyard Beekeeper, Revised and Updated: An Absolute Beginner's Guide to Keeping Bees in Your Yard and Garden – Kim Flottum (2010)
- 5) Honey Bee Biology and Beekeeping – Dewey Caron, Lawrence Connor (Revised 2013)
- 6) Storey’s Guide to Keeping Honey Bees -Richard E. Bonney, Malcolm T. Sanford (2018)
- 7) Beekeeping Tips and Techniques for the Southeast United States, Beekeeping Finance – David MacFawn (2017)

#### **Periodicals:**

American Bee Journal

Bee Culture

#### **Videos:**

Honey Bees & Beekeeping - Keith Delaplane, University of Georgia

Beginning with Bees - A. I. Root

Keeping Bees & Producing Honey - Brushy Mountain Bee Farm

Tracheal Mites - Brushy Mountain Bee Farm

Varroa Mites - Brushy Mountain Bee Farm

Finding & Treating Bee Diseases - Brushy Mountain Bee Farm

Introduction to Beekeeping - Dadant



## **JOURNEYMAN Level (in addition to those listed for the Certified Level)**

### **Books:**

- 1) The Hive and the Honey Bee – Dadant and Sons, Inc. (2015)
- 2) ABC & XYZ of Bee Culture – A.I. Root, (2007)
- 3) Honey Bee Pests, Predators, and Diseases, 3rd Edition – A.I. Root (Morse and Flottum, Eds.) (1998)
- 4) The Biology of the Honey Bee – Mark Winston (1991)
- 5) Bee Pollination in Agricultural Ecosystems – Rosalind James and Theresa L. Pitts-Singer (2008)
- 6) The Small Hive Beetle, Aethina tumida Murray – Michael Wm Hood (2017)

### **Video:**

Colony Division & Requeening - Brushy Mountain Bee Farm

Swarm Boxes - Brushy Mountain Bee Farm

Free Bees For You - Brushy Mountain Bee Farm

The Magic of Mead - Brushy Mountain Bee Farm

## **MASTER Level**

The following is a survey list of reading suggested as preparation for the Master Beekeeper Level of the South Carolina Master Beekeeper program. Even though this list is lengthy, it is not meant to be all-inclusive. A familiarity with the material will certainly prepare an individual for the Master level, but it will not necessarily provide all the information which is necessary for the completion of this level. These selections were made in order to present an overview of many different beekeeping and bee-related topics. The developers of the South Carolina Master Beekeeper Program do not necessarily agree with all of the information and opinions included in the various texts, however, the reading list was developed to acquaint the beekeeper with different viewpoints, so that the individual may be exposed to a representative sampling of the available literature. Some of the older selections may have information that needs to be updated to current beekeeping knowledge and practices.

All of the publications on the list are suggested readings but those marked with an asterisk (\*) are highly recommended.

Abie, Ormond and Harry Abei. 1975. The Art and Adventure of Beekeeping. Unity Press; Santa Cruz, 184 pp.

Abei, Ormond and Harry Abei. 1979. Mastering the Art of Beekeeping. Unity Press; Santa Cruz, Calif. 283 pp.

\*Crane, Eva. 1975. Honey. International Bee Research Assoc., London, 608 pp. Special emphasis on the following chapters:

- Chapter 1 The Flowers Honey Comes From
- Chapter 2 How Bees Make Honey
- Chapter 9 Processing and Storing Liquid Honey
- Chapter 11 Producing Various Forms of Honey
- Chapter 15 Uses and Products of Honey

\*Dadant and Sons. 2015. The Hive and the Honey Bee. Dadant and Sons Hamilton, Illinois. 1324 pp.

ISBN 0-915698-09-9. Special emphasis on the following chapters:

- Chapter 1 The World's Beekeeping: Past and Present by Richard Jones
- Chapter 9 Honey Bee Nutrition by Elton Herbert, Jr and Dale A. Hill
- Chapter 10 Activities and Behavior of Honey Bees by Norman Gary
- Chapter 15 Management for Honey Production by Keith Delaplane
- Chapter 26 Crop Pollination by Gloria Degrandi-Hoffman

Doolittle, G.M. 1889, 1899 (2008 Reprint) Scientific Queen-Rearing. Wicwas Press, Kalamazoo, Michigan, ISBN 978-1-8075-24-6.

Johansen, Carl and Daniel F. Mayer. 1990. Pollinator Protection: A Bee and Pesticide Handbook. Wicwas Press, Cheshire, Conn. ISBN 1-878075-00-4. 212 pp.

Laidlaw, Harry H. Jr. and Robert Page, Jr. 1997. Queen Rearing and Bee Breeding. Wicwas Press, Cheshire, Conn, ISBN 1-878075-08-X. pp224.

Loring, Murray. 1984. Bees and the Law. Dadant and Sons, Hamilton, Illinois. 128 pp. ISBN 0-915698-07-2.

Miller, C.C. 1915. Fifty Years Among the Bees. (reprinted 1980) Molly Yes Press; New Berlin, NY, 328 pp.

Morse, Roger. 1978. Comb Honey Production. Wicwas Press, Ithaca, NY 128 pp.

Morse, Roger. 1994. Rearing Queen Honey Bees. Wicwas Press, Cheshire, Conn. ISBN 1-878075-05-5. Pp. 128.

\*Morse, Roger and Kim Flottum. 1997. Honey Bee Pests, Predators & Diseases. The A.I. Root Company, Medina, Ohio, 718 pp. ISBN 0-936028-10-6. Special emphasis on the following chapters:

- Chapter 3 Bacteria
- Chapter 4 Protozoa
- Chapter 9 Insects: Hymenoptera (Ants, Wasps, and Bees)
- Chapter 14 Mites: Varroa and Other Parasites of Brood
- Chapter 22 Summary of Control Methods

Ratnieks, Richard & Richard Nowogrodzki. Queen Rearing by Beekeepers in the Northeast. Information Bulletin #209, Cornell University Cooperative Extension Service, Ithaca, NY.

Shimanuki, H., Kim Flottum, and Ann Harman. 2006. The ABC & XYZ of Bee Culture. The A.I. Root Company, Medina, Ohio, ISBN -13: 978-0-936028-22-4 and ISBN -10: 0-936028-22-X. 911 pp.

\*U.S Dept. of Agriculture. 1980 Beekeeping in the United States. Agriculture Handbook No. 335 of the U.S. Dept. of Agriculture. 193 pp.

\*von Frisch, Karl. 1993. The Dance Language and Orientation of Bees. Harvard University Press, Cambridge, Mass. ISBN 0-674-19051-3 (paperback). 566 pp.

\*Webster, Thomas and Keith Delaplane. 2001. Mites of the Honey Bee. Dadant & Sons, Hamilton, Illinois. 280 pp. ISBN 0-915698-11-0. Special emphasis on the following chapters:

- Chapter 15 Resistance of Honey Bees to Varroa Mites

Chapter 16 Treatment Thresholds for Varroa Mites

Chapter 17 Management of the Resistance of Varroa Mites to Acaricides

## **APPENDIX B            Public Service Credit Requirements** **(For the Journeyman, Master, and Master Craftsman Levels)**

Candidates for the Journeyman Beekeeper rank or higher **must document** a certain number of public service credits. "Public service" is defined as volunteer service or educational activity oriented around bees and beekeeping and conducted primarily for the benefit of the public (**non-beekeeping audience**), though service to the beekeeping community may be accepted. Educational activities in conjunction with commercial ventures generally do not qualify (i.e. selling honey).

One Public Service Credit (PSC) equals a single, **documented** event of a qualified public service. Multiple repetitions of a particular activity may count, but only if they involve separate events or invitations. For example, two presentations to fifth grade science classes may qualify as 2 PSCs but not if they are two successive class periods on the same day. **Diversification** of the activities listed on the PSC form is highly encouraged. The MBP Committee reserves the right to disqualify identical events in fulfillment of the PSC requirement.

***The key to earning PSCs is adequate documentation of the event.*** *Primary* documentation is represented by original media: conference programs, testimonial letters from third parties, newspaper clippings, photographs, or video recordings. *Secondary* documentation may lack material evidence of the activity, but must at least include a written statement with the title of the event, date, place, time, topic, target clientele group and number attended, description of the activity and its outcome, and contact information with signature for the activity organizer for verification. We provide a documentation form for your use. ([See APPENDIX J](#)  
[PROGRAM FORMS](#))

In general, documentation must be material evidence, in writing; and more detail is better than less. The MBP Director/Committee Members reserve the right to accept or reject documentation during program audits. ***Candidates for Journeyman/Master Beekeeper should present documentation to the Master Beekeeper Program Director/Committee PRIOR to taking the written examination in the format of a personal Beekeeping***

**Portfolio** – a basic compilation of your beekeeping service and achievements. A Cover Sheet is provided (see [APPENDIX J](#) PROGRAM FORMS) for each level to assist you in compiling and organizing the required elements for each level.

**The following activities are pre-approved for satisfying PSC requirements.** Other activities may be admissible, but candidates are advised to contact the MBP Committee about specific cases.

- 1) Presenting bee-related lecture or workshop to non-beekeeping group (youth or adult)
  - 2) Presenting bee-related lecture or workshop to a beekeeping class, club, conference
  - 3) Serving as an officer in a local, state, or national beekeeping association
  - 4) Assisting members of youth organizations (4-H, Scouts, FFA) with project work
  - 5) Mentoring a new beekeeper through at least one complete season
  - 6) Public demonstration on beekeeping topic at fair, festival, or similar public event
  - 7) Providing a hive of bees to pollinate a public garden
  - 8) Establishing and maintaining an observation hive for school or civic group
- 9) Designation by local County Extension office or other municipal agency as expert contact on bee-related questions or issues (see points below).
- a) MBP participant must contact their county agent *and* the MBP board to offer their expertise.
  - b) Must have scored an average of 80% or better on most recent practical & written exams.
  - c) Must be a current beekeeper in the county for which extension office appoints them expert (counties may have multiple experts).
  - d) Must provide a clear channel of communication open to the county, agent and public (e.g.; hotline, email, social media, etc.).
  - e) Must receive positive evaluation from county extension agent stating: dates of service, value of performance to the office, approximate time dedicated to position, and any additional comments.

**Presentation Guidelines:**

- 1) Be punctual, trustworthy and reliable. Follow through on your commitments and responsibilities. Call if you will be delayed or cannot attend the event. Offer to make a reasonable effort to find a replacement speaker if you are going to miss a commitment.
- 2) Maintain a friendly, warm, and courteous attitude toward the public.
- 3) Communicate effectively with clients, staff and fellow Master Beekeeper Program participants.
- 4) Dress appropriately for the volunteer activity in which you are involved.
- 5) Follow affirmative action policies which forbid discrimination against anyone because of their race, color, gender, nation of origin, religion, age or disability.

## **APPENDIX C      Majors and Credit Requirements**

***Major must be declared to the MBP Director/Committee before beginning work towards Master Beekeeper status.*** Candidates MUST be able to document activities – contact MBP Director/Committee if you have questions about any of the requirements. You may find a Major/Core Credit Documentation Form in [APPENDIX J](#) **PROGRAM FORMS** to assist you with documentation of credits.

### **Select Major Credits from the following MAJORS:**

#### **1) Diagnosis and Treatment of Honey Bee Pests, Parasites, and Pathogens**

- a) Pass (with 80% or higher) a tutorial on diseases of the honey bee
- b) Pass (with 80% or higher) a tutorial on pests/parasites of the honey bee
- c) Present lecture on bee pests/diseases at state beekeepers meeting or higher
- d) Switch to and document use of IPM (integrated pest management) in personal beekeeping operation
- e) Serve as "local expert" and assist other beekeepers in proper disease/pest diagnosis in their colonies
- f) Acquire a pesticide applicator license
- g) Create reference collection (sterile) of bee pests and diseases
- h) Research and review 1 pest or disease of honey bees. The review may be published on the SCBA website. The written review must be accompanied by a power point presentation.
- i) Pass (80% or higher) a practical (hand's on) examination of bee pests/diseases
- j) Attend 3 training workshops on bee pests/diseases (must be able to document)

#### **2) Pollination Ecology and Bee Botany**

- a) Provide pollination services for gardener (not self) or commercial fruit/nut/vegetable grower (must be able to provide documentation from grower)
- b) Plant bee-friendly garden in public area (such as library, town square, etc.) Local authority verification required.
- c) Present lecture on pollination ecology or bee botany at state beekeepers meeting or higher
- d) Produce handout of local honey plants and when they bloom for local (county or region) clients
- e) Pass (80% or higher) practical examination on bee plants
- f) Research and review 1 plant that is a major honey production plant in South Carolina. The review may be published on the SCBA website. The written review must be accompanied by a power point presentation.
- g) Become a certified South Carolina Master Gardener
- h) Be trained in identifying pollen present in honey samples
- i) Document work with pollinator education to the general public

j) Create museum-quality plant collection of regional honey plants

### **3) Honey Judging**

a) Judge state level or higher honey show competition (State Fair, State/Regional/International Bee Association)

b) Become a certified Honey Judge

c) Win 1st or 2nd place in any category of state or higher level honey show (State Fair, State/Regional/International Bee Association)

d) Document ability to produce mead

e) Pass (80% or higher) practical examination on honey judging

f) Research and review 1 type of honey important to the South Carolina beekeeping industry. The review may be published on the SCBA website. The written review must be accompanied by a power point presentation.

g) Educate public about hive products and their uses at a fair booth or other such event

h) Show evidence that you maintain a South Carolina licensed honey house

i) Be trained in identifying pollen present in honey samples

j) Document knowledge (either through written examination, creating of extension bulletins, etc.) of honey production/processing and other products of the hive

### **4) Beekeeping for Rural Development**

a) Document knowledge (either through written examination, creation of extension bulletin, etc.) of alternative methods of queen rearing

b) Pass (80% or higher) a practical (hand's on) examination of bee pests/diseases, including non-chemical control of these disorders

c) Document knowledge (either through written examination, creating of extension bulletins, etc.) of honey production/processing and other products of the hive, including value adding theory

d) Document proficiency in hive equipment assembly

e) Be proficient in a foreign language

f) Volunteer for Winrock, Partners of the Americas, or other similar organization

g) Be a certified South Carolina Master Gardener

h) Pass (80% or higher) written examination on beekeeping for rural development

i) Win 1st or 2nd place in any category of state or higher level honey show (State Fair, State/Regional/International Bee Association)

j) Document knowledge (either through written examination, creation of SC Extension bulletins, etc.) of pollination ecology, general honey bee biology, and colony management for honey production

### **5) Queen Production**

a) Document that you are rearing queens according to best management practices through submission of a journal, log, or record over time of your queen rearing practices.

b) Attend instrumental insemination course

c) Pass (80% or higher) examination of mating biology and bee genetics

d) Research and review alternative queen rearing methods industry. The review may be published on the SCBA website. The written review must be accompanied by a power point presentation.

e) Volunteer with professional queen breeder (40 hours needed). Must submit a log of hours signed by the breeder.

f) Research and review one (1) race of honey bee. The review may be published on the SCBA website. The written review must be accompanied by a power point presentation.

g) Serve as "local expert" and assist other beekeepers with queen production. Must be able to document.

h) Pass (with 80% or higher) a tutorial on Africanized honey bees

i) Must document that you have mentored/trained others in the dynamics of queen rearing

j) Must document that you are selecting for resistance traits in own queen rearing operation

### **6) African Honey Bees**

a) Document proficiency in USDA bee identification methods

b) Generate African bee extension information (presentations, etc.) for a specific target audience (Master Gardeners, etc.)

c) Pass (with 80% or higher) a tutorial on Africanized honey bees

d) Pass (80% or higher) examination of mating biology and bee genetics

e) Acquire a pesticide applicator license

f) Document knowledge and participation in colony bait hive service

g) Document trip to another area having African bees. Candidate must be able to document work with the Africanized bees while in the area.

h) Serve as "local expert" and assist other beekeepers with African bee related issues

i) Must keep personal bee colonies according to best management practices

j) Present lecture on African honey bees at state beekeepers meeting

## **7) Advanced Bee Husbandry**

a) Switch to and document use of IPM (integrated pest management) in personal beekeeping operation

b) Pass (80% or higher) a practical (hand's on) examination of bee pests/diseases

c) Provide pollination services for gardener (not self) or commercial fruit/nut/vegetable grower (must be able to document)

d) Plant bee-friendly garden in public area (such as library, town square, etc.)

e) Become a certified South Carolina Master Gardener

f) Document knowledge (either through written examination, creating of extension bulletins, etc.) of honey production/processing and other products of the hive, including value adding theory

g) Document that you are rearing queens according to best management practices

h) Attend instrumental insemination course

i) Document proficiency in USDA guidelines

j) Pass (80% or higher) examination of mating biology and bee genetics

## **8) Native Bee Apiculture**

a) Build a native bee nest habitat for community garden or commercial fruit/nut/vegetable grower

b) Build a native bee nest habitat in a public area (such as library, town square, school, etc.)

c) Present a lecture on (1) native bee diversity or (2) how to create native bee habitats at a state, regional (multi-state), national or international beekeepers meeting

d) Produce an educational color pamphlet or brochure of local native bees for local (county or region) clientele. (All photos used must be cited and permissions granted by the photographer or copyright holder; a reference list is required)

e) Pass (80% or higher) a practical examination on bee and wasp identification

f) Research and produce a review of one species of native South Carolina bee. The review may be published on the SCBA website. The written review must be accompanied by a power point presentation.

g) Participate in a university study about native bees and show documentation



- h) Conduct a survey using native bee monitoring techniques and report on the local native bees present in your area with a digital photograph collection of regional bees and wasps complete with an index that provides date/location/identification information for each photo or a museum-quality insect collection of regional bees and wasps complete with collector and species identification labels
- i) Document involvement with providing native bee education to the general public
- j) Write an article centered around a specific native bee or around native bees in general to be published in a popular journal or magazine or for a website (i.e. SCBA document).

## 9) Apiculture Education

- a) Develop an original bee related educational PowerPoint presentation (check with MBP Director/Committee for topic) for a 45-minute lecture, accompanied by a script and a cover page identifying the following: target audience, accompanying resources, further reading list (all photos used must be cited and permissions granted by the photographer or copyright holder; a reference list is required)
- b) Develop educational pamphlet detailing an aspect of beekeeping (extracting honey, building equipment, etc.) for distribution among **beekeepers** (all photos used must be cited and permissions granted by the photographer or copyright holder; a reference list is required)
- c) Develop original educational pamphlet explaining a bee related issue that may be important for the **general public** (or a specific target audience) for distribution (all photos used must be cited and permissions granted by the photographer or copyright holder; a reference list is required)
- d) Write an article about one of the following topics: education using bees, safety and beekeeping, bee related laws and regulations, bee anatomy and biology, beekeeping IPM, or other approved topic for a popular journal, magazine or newsletter
- e) Pass (80% or higher) a module on apiculture education basics
- f) Attend 5 state or higher level beekeeping seminars (such as the South Carolina State Beekeepers Association spring or summer annual meetings, the annual meeting of the American Beekeeping Federation, etc.) – you must be able to document attendance
- g) Develop a bee related teaching module (for beekeepers) accompanied by an evaluation tool (something with which you can judge the success of your teaching module)
- h) Provide documentation of successful beekeeping mentorship (i.e., the individual you are mentoring is showing clear progress due to your instruction) via self-created pre/posttests, evaluations, documented growth and progress
- i) Attend educational seminars – not on bee education but on how to be an effective educator – these occur in many places; contact the program board for ideas
- j) Provide documentation of participation in peer review of presentations by other beekeepers, accompanied by a feedback evaluation form signed by the reviewer, presenter and outreach contact.

## APPENDIX D                      Core Credits

**Core Credit Requirements**— To achieve the Master Beekeeper certification, a Journeyman Beekeeper must document completion of 5 credits *outside* their major before they can be considered for advancement to the Master Beekeeper Level. Master Beekeepers must complete an *additional* 8 core credits for a grand total of 13 core credits to qualify for Master Craftsman Level. You may choose any of the following credits *not in your declared major* to fulfill this requirement. In addition to this, you may choose credits from other majors (other than those that may also be listed in your declared major) to fulfill your core credits. (ie: some activities may be listed in multiple majors. If an activity is listed in your declared major, you may not use that activity to satisfy a core credit even though it may be listed under another major). You may use the Major/Core Credit Form to assist in your documentation (see [APPENDIX J](#) PROGRAM FORMS).

- 1) Winning 1st or 2nd place in an authorized competition (State Fair, State/Regional/International Bee Association) in one of the following categories:
  - Comb or cut-comb honey/ extracted honey
  - Crystallized (spun or creamed) honey, or
  - Beeswax
- 2) Publishing article in a beekeeping publication (excluding newsletters).
- 3) Publishing article in a non-beekeeping publication (with at least state-wide distribution).
- 4) Being recognized as a beekeeping authority in your local area by appearing on radio or TV.
- 5) Documenting training in life-saving treatment of persons suffering from allergic reactions to insect stings.
- 6) Attending at least three regional multi-state, national, or international beekeeping meetings.
- 7) You must conduct a program or workshop at a state, regional, national or international meeting or convention.
  
- 8) Demonstrating competence in small-scale queen rearing.
- 9) Completing a course on artificial queen insemination.
- 10) Acquiring private pesticide applicator's license.
- 11) Documenting legally-licensed honey processing facility.
- 12) Participating/volunteering in a beekeeping research or extension project at an approved institution.
- 13) Acquiring other certified bee-related training as approved by MBP Committee.
- 14) Serving two or more years as officer of a bee organization at the state level or higher (need not be consecutive nor in the same organization).
- 15) Documenting culture/maintenance of other bee species (bumble bees, halictids, etc.).
- 16) Mentoring a beekeeping group in a rural/underprivileged/international community.
- 17) International beekeeping experience whereby clear benefits to the group and to SCBA are documented.

18) Maintaining a public Blog, public journal, or public forum on honey bees. Must be informational, resource based in nature, easily accessible, and advertised and must be able to show number of site visits during the year.

19) Volunteer with a commercial beekeeper or organized university apiary (40 hours needed). Log must be submitted and signed by sponsoring organization.

\*\*Other documentation may be considered but we recommend that you consult the MBP Director prior to undertaking an event not on the above list.

## **APPENDIX E      Communication Skills Applicable for Master Level Only**

1. Candidate must present a program at a State Beekeeper conference. Program may be in the form of a general presentation, workshop, or similar activity. Program topic must be presented to MBP Committee for review and scheduling.

2. Nominee must complete two of the following activities with documentation of publication:

- A. Prepare and publish article in beekeeping journal.
- B. Prepare and publish article on bees or beekeeping in non-beekeeping publication.
- C. Be interviewed on radio or TV program regarding honey bees and/or beekeeping.
- D. Be featured in a newspaper article regarding honey bees and/or beekeeping.

## **APPENDIX F      Examinations and Fees**

Participants must take a written and practical examination for completion of the Certified, Journeyman, and Master Levels. An oral examination is required at the Master Craftsman Level.

Written tests may consist of multiple choice, true/false, short answer, matching, and short essay. Practical tests may contain multiple choice, true/false, and matching questions, but also may include identification of hive parts, tools, diseases/pests of honey bees, and or demonstration of beekeeping skills. Please see the individual levels for the required passing score for the respective tests.

Certified and Journeyman Level testing must be administered by an approved SCBA Journeyman, Master, or Master Craftsman Level beekeeper. Master Level testing must be administered by an approved Master Level or Master Craftsman Level beekeeper. Master Craftsman Level testing must be administered by an approved Master Craftsman or a documented apiculture expert.

Certified testing may be offered at the local club level as well as at the SCBA Spring or Summer Conferences. Journeyman testing may be offered in rotating locations throughout the State as well as at the Spring or Summer Conferences. Master and Master Craftsman testing will only be provided once a year at the Summer Conference. Please notify the MBP Committee by June 1<sup>st</sup> if you desire to test at these advanced levels in order to insure the availability of an expert review board.

Passing Certified Level candidates will be awarded certificates of accomplishment at their respective local club meetings. Journeyman, Master, and Master Craftsman Level candidates will be awarded their certificate of achievement at the next occurring State Spring or Summer Conference.

#### **Current Testing Fees:**

Certified Level	\$10.00
Journeyman Level	\$25.00
Master Level	\$50.00
Master Craftsman Level	\$50.00

#### **Re-testing Protocol:**

- 1) All participants are welcome to re-take any test on which they failed to achieve a passing score. This must be done within eight weeks of the original exam date (special accommodations will be considered if unable to meet the time requirement) and will be certified as passing on the original exam date. The participant must contact the MBP Director to request a re-test and schedule the testing. Re-tests are offered at no charge.
- 2) Students wishing to re-test after 8 weeks, but within one year of the original exam date, and achieve a passing score, will be certified at the next exam date. This stipulation maintains the prior caveat that each participant must hold each rank for at least one year before being allowed to test to advance in the program.

## **APPENDIX G Program Status and Portfolio Documentation Guidelines**

### **Program Status:**

- **Active Status** – Any Master Beekeeper Program participant who is actively pursuing the next level in the program with no more than 2 years lapsing before testing to obtain the next level is considered “active” (special exceptions may be considered). Active beekeepers will receive invitations to MBP-only training events, socials, receive emails regarding PSC credits, and are eligible to receive the Beekeeper of the Year Award, though participation in the MBP is not a requirement to receive the award.
- **Activity Report** - Master Beekeeper Program participants may submit a yearly activity report. This report is not mandatory, but may be used, in part, to determine the Beekeeper of the Year Award. An activity report should consist of a list of credit-worthy activities completed during the calendar year. Please include the name and short description of activity, date, type of audience and number of people reached. Participants are

encouraged to use the respective Level Cover Sheets to assist in organizing this information. These reports will be accepted yearly, until January 31<sup>st</sup>.

### **Beekeeping Portfolio and Documentation Guidelines:**

- 1) Candidates for Journeyman Level and above should complete Public Service Credits throughout the year compiling them in a personal **Beekeeping Portfolio**. The Candidates for Master and Master Craftsman Level should include the documentation of Major and Core Credits. The entire Portfolio is to be submitted for review to the MBP Committee **PRIOR** to sitting for the next level exam. Special circumstances will be considered for late Portfolio submissions.
- 2) Each level is now required to use the appropriate "Cover Sheet" to organize and summarize their credits (see [APPENDIX J](#) PROGRAM FORMS). This Cover Sheet serves as a table of contents for your documentation of achievement in your Beekeeping Portfolio.
- 3) The key to presenting all credits - Public, Major, and Core; is **adequate documentation** of the event/activity.

**Note:** *We request that you present these materials neatly, professionally, and well organized in your own personalized Beekeeping Portfolio with all original forms and documentation. Upon completion of review, the MBP Committee will return your Portfolio.*

*The Master Beekeeping Program Director/Committee reserves the right to accept or reject documentation during program audits of the SCBA Master Beekeeper Program.*

- 4) Two items of supporting documentation are required for EACH Public Service Credit. *Primary* documentation is represented by original media: conference programs, testimonial letters from third parties, newspaper clippings, photographs, or video recordings. *Secondary* documentation is represented by the Public Service Credit Form which should include contact information for the activity coordinator and his/her signature. Incomplete forms may not be accepted.
- 5) In order to provide adequate time for review of **Beekeeping Portfolios**, the MBP Committee may set a deadline for Portfolio submissions PRIOR to the testing of any level. If a candidate is not able to meet the deadline, the awarding of any earned achievement may be delayed until the next State Conference.

### **APPENDIX H Reciprocal Certification Recognition Policy**

The SCBA will not issue certification to duplicate an equivalent certification achieved by another certifying agency, however, the outside certification may be considered as foundation for the next equivalent level in the SCBA MBP and evaluated on a case by case basis by the MBP Committee based on the following criteria:

- 1) Submission and verification of level certification including documentation and contact information for certifying agency.
- 2) Submission of supporting documentation of beekeeping public service and any beekeeping projects that may qualify for credit as a major/core credit.

**CERTIFIED LEVEL:** Most Certified Level certifications may be accepted as sufficient for a new SCBA member to begin working toward their Journeyman Level Certification.

**JOURNEYMAN, MASTER, MASTER CRAFTSMAN:** Due to the vast differences in the various beekeeping programs, testing will be required for the Journeyman, Master, and Master Craftsman Levels. In order to maintain the integrity of the SCBA MBP, we must insist that the level of mastery is achieved before awarding the level certification.

Public Service Credits are a valuable component to the success of the SCBA MBP. The huge volume of volunteer hours required to fully educate our membership and provide solid beekeeping instruction to the community mandates that we require these credits for new members who may have already achieved the Journeyman, Master, or Master Craftsman Levels from another agency. This also gives us an opportunity to observe and verify that the candidate's beekeeping practice is in line with our stated best beekeeping principles.

A member who moves into South Carolina with a Master or Master Craftsman Level certification will be recognized as such but will not be given an automatic SCBA certification. If a member desires to earn this certification from SCBA MBP, then the member must complete all of the requirements of that level in SCBA MBP. No automatic reciprocal certifications will be issued based on another agency's certification.

Any questions or concerns regarding certification reciprocity should be submitted to the SCBA MBP for consideration.

*This policy was adopted by unanimous vote of the SCBA Executive Committee, May 18, 2018*

## **APPENDIX I RESEARCH PROJECT – Master Craftsman Level Only**

The Master Craftsman Research Project is individually selected and pursued with mentoring from an expert in the research field chosen. We suggest the following timeframe to ensure your project proceeds in a timely manner.

### **RESEARCH PROJECT Year 1**

1. Choose project focus area and subject, then submit to MBP Committee for approval.

For example: Focus Area: Pest/Pathogen Control

Subject: Small Hive Beetles

#### **Suggested Focus Areas:**

Pest/Pathogen Control

Biology—pollination, behavioral biology, genetics, ecology

Chemistry—the chemistry of urban honey (pollutants, etc.), propolis/wax chemistry

Earth and Atmospheric Sciences—effect of climate on bee populations, foraging behavior, and honey production

Mathematics—modeling bee behavior or disease dynamics (honey bee pathogens)

Physics—the physics of flight, honey bee optics, foraging models

Psychology—organizational psychology

Computing—analysis of bee motion, robotics

Interactive computing—real-time hive monitoring

Aerospace Engineering—bee flight

Biomedical and Materials Engineering— antimicrobial and structural characteristics of propolis

Chemical Engineering—honey extraction, processing, analysis

Electrical Engineering—IR web cams

Industrial Engineering—industrial honey production

Mechanical Engineering—stand/hive construction, scale-up for developing countries

Economics—economics of pollination

Literature and History—communication about the project, cultural history of honey production

Public Policy—zoning urban beekeeping, bees and sustainability

Business—marketing and financing urban honey production

Architecture—hive design and construction

City planning—GIS of urban areas (forested, bare, weedy, concrete habitats)

2. Literature Review—journals, books, interviews, popular articles

- a. What is known about your proposed topic?
- b. How have others executed similar projects?

3. Seek and affirm project affiliate (i.e. what institution and individual [expert advisor] will provide project oversight?) with the concurrence of the SCBA MBP Committee.

4. Write a project proposal (3–5 pages maximum)

- a. Title
- b. Objective
- c. Background
- d. Materials and methods
- e. Expected outcome
- f. Potential impact
- g. References

5. Allow advisor to review proposal

6. Submit proposal to MBP Committee—the proposal must be approved by the committee prior to project initiation

7. Collect preliminary data

- a. Acquire/construct necessary materials required for project
- b. Use proper data collection methods (lab notebook, spreadsheets, etc.)
- c. Modify research project based upon preliminary data

8. Review first year's progress with advisor

### **Research Project Year 2**

1. Review project progress with advisor

2. Project execution

- a. Data collection
- b. Continued literature review: any recently published studies on the topic?

3. Preliminary data analysis—must be approved by MBP Board to proceed

4. Analyze and synthesize the results

- a. Photographs
- b. Data tables, graphs, and figures
- c. Statistical analysis

5. Review project with advisor

6. Prepare final paper, submit to advisor for review

- a. Title
- b. Abstract
- c. Introduction
- d. Materials and methods
- e. Results
- f. Discussion
- g. Conclusion
- h. Acknowledgments
- i. References

*Note: This project should reflect a University Level Master's Degree Research Project*

7. Project timeline

- a. First draft of final paper to be submitted to MBP Committee minimum of three months before anticipated advancement date (MBP exam day). Multiple drafts or edits may be necessary.
- b. Oral exam may be scheduled (on exam day – summer conference) once first draft of project report is submitted.
- c. Submit final, approved, and edited manuscript to MBP Committee on exam day.
- d. Thirty-minute oral presentation of research project to be presented at the SCBA Summer Conference with an accompanying slide show.



Public Service Credit Form

MAJOR / CORE Credit Form

CERTIFIED Level Cover Sheet

JOURNEYMAN Level Cover Sheet

MASTER Level Cover Sheet

MASTER CRAFTSMAN Cover Sheet



**Public Service Credit Form**

- 1-Master Beekeeper candidate is to complete form below.
- 2-Representative sponsoring/hosting event must sign form.
- 3-Candidate will present completed form and any accompanying documentation as a part of a “Beekeeping Portfolio” to be turned in on day of exam. Please make a copy for your records.
- 4-Questions regarding Public Service Credits should be directed to **SCMasterbeekeeper@gmail.com**

On this date: \_\_\_\_\_, (name)  
\_\_\_\_\_, a  
candidate for the South Carolina’s (SCBA) Master  
Beekeeper Program, provided or completed **an act of  
public service**, which covered the following subject  
matter related to beekeeping, honey bee pollination, or  
honey production: **(Please circle applicable areas)**

**MAJOR / CORE Credit Form**

- 1-Master Beekeeper candidate is to complete form below.
- 2-Candidate will present completed form and any accompanying documentation as a part of a “Beekeeping Portfolio” to be turned in on day of exam. Please make a copy for your records.
- 3-Questions regarding Major/Core Credits should be directed to **SCMasterbeekeeper@gmail.com**

1. Presenting bee-related lecture or workshop to a group
2. Serving as an Officer in a local, state, or national beekeeping association
3. Assisting members of youth organizations (4-H, Scouts, FFA) with project work
4. Mentoring a new beekeeper through at least one complete season
5. Public demonstration on beekeeping topic at fair, festival, or similar public event
6. Providing a hive of bees to pollinate a public garden
7. Establishing and maintaining an observation hive for school or civic group
8. Appointment by County Extension office or other agency as expert contact on bee-related questions or issues (see Manual Appendix B for documentation requirements)
9. Publication of beekeeping and related topic articles in journals, newsletters, etc
10. Other: \_\_\_\_\_

Organization name: \_\_\_\_\_

Name of Event: \_\_\_\_\_

General Description of Event: \_\_\_\_\_

Estimated number of participants/attendees: \_\_\_\_\_

Printed Name/Title of Representative: \_\_\_\_\_

Signature of Representative: \_\_\_\_\_

Contact Information (phone and/or email) for Signee: \_\_\_\_\_



Date: \_\_\_\_\_

SCBA Member Name: \_\_\_\_\_

Declared Major: \_\_\_\_\_

Submitted Credit: MAJOR CORE (Circle One)

Apply Credit towards: MASTER LEVEL MASTER CRAFTSMAN LEVEL (Circle One)

Description of Credit Completed as listed in the MBP Manual:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Description of Specific Action Taken to Earn Credit:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please list any attached documentation:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Printed Name/Title of Representative or Witness:

\_\_\_\_\_

Signature of Witness: \_\_\_\_\_

Contact Information for Signee  
(email/phone): \_\_\_\_\_

**CERTIFIED  
LEVEL**

**COVER  
SHEET**



# M Master Beekeeper Program

WRITTEN EXAM SCORE: \_\_\_\_\_ PASS / FAIL  
PRACTICAL EXAM: PASS / FAIL

## CERTIFIED WRITTEN EXAM

Local Association: \_\_\_\_\_

Candidate Name: \_\_\_\_\_

Is Candidate a Current Member of the SC Beekeepers Association?    YES    NO    (circle one)

*Note: Candidate MUST be a current year member of SCBA in order for any achievement to be recorded.*

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

---

Written Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Written Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

*Note: Certification as SCBA Journeyman or above is required to Proctor at this level.*

Proctor's SIGNATURE: \_\_\_\_\_

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Re-Take Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Written Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

*Note: Certification as SCBA Journeyman or above is required to Proctor at this level.*

Proctor's SIGNATURE: \_\_\_\_\_

**CERTIFIED PRACTICAL EXAM**

Candidate Name: \_\_\_\_\_

Practical Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Practical Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

*Note: Certification as SCBA Journeyman or above is required to Proctor at this level.*

Proctor's SIGNATURE: \_\_\_\_\_

I, \_\_\_\_\_, certify that I have owned/cared for honey bees  
(Print Candidate Name)  
for a minimum of 1 calendar year.

CANDIDATE SIGNATURE: \_\_\_\_\_

Date: \_\_\_\_\_

Re-Take Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Practical Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

*Note: Certification as SCBA Journeyman or above is required to Proctor at this level.*

Proctor's SIGNATURE: \_\_\_\_\_

**JOURNEYMAN  
LEVEL**

**COVER  
SHEET**



WRITTEN EXAM SCORE: \_\_\_\_\_ PASS / FAIL

PUBLIC SERVICE CREDITS: \_\_\_\_\_ (5)

PRACTICAL EXAM SCORE: \_\_\_\_\_ PASS / FAIL

**JOURNEYMAN WRITTEN EXAM**

Local Association: \_\_\_\_\_

Candidate Name: \_\_\_\_\_

Is Candidate a Current Member of the SC Beekeepers Association?    YES    NO    (circle one)

*Note: Candidate MUST be a current year member of SCBA in order for any achievement to be recorded.*

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Written Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Location: \_\_\_\_\_

Written Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

*Note: Certification as SCBA Journeyman or above is required to Proctor at this level.*

Proctor's SIGNATURE: \_\_\_\_\_

Re-Take Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Location: \_\_\_\_\_

Written Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

*Note: Certification as SCBA Journeyman or above is required to Proctor at this level.*

Proctor's SIGNATURE: \_\_\_\_\_

**PUBLIC SERVICE CREDITS**

Briefly summarize the PSC Credits earned: *(5 Credits are required)*

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

Date Portfolio Submitted: \_\_\_\_\_ Complete: \_\_\_\_\_

Location: \_\_\_\_\_

SCMBP Committee Member(s) Reviewing: \_\_\_\_\_

SIGNATURES: \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ Date \_\_\_\_\_

**PRACTICAL EXAM**

Practical Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Location: \_\_\_\_\_

Practical Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

*Note: Certification as SCBA Journeyman or above is required to Proctor at this level.*

Proctor's SIGNATURE: \_\_\_\_\_

I, \_\_\_\_\_, certify that I have owned/cared for honey bees  
*(Print Candidate Name)*

for at least 1 year following the completion of the Certified Level for a minimum of 2 years of beekeeping experience.

CANDIDATE SIGNATURE: \_\_\_\_\_

Date: \_\_\_\_\_

**MASTER  
LEVEL**

**COVER  
SHEET**



WRITTEN EXAM SCORE: \_\_\_\_\_ PASS / FAIL

PUBLIC SERVICE CREDITS: \_\_\_\_\_ (10)

MAJOR CREDITS: \_\_\_\_\_ (3)

CORE CREDITS: \_\_\_\_\_ (5)

PRACTICAL EXAM SCORE: \_\_\_\_\_ PASS / FAIL

**MASTER WRITTEN EXAM**

Local Association: \_\_\_\_\_

Candidate Name: \_\_\_\_\_

Is Candidate a Current Member of the SC Beekeepers Association?    YES    NO    (circle one)

*Note: Candidate MUST be a current year member of SCBA in order for any achievement to be recorded.*

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Written Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Location: \_\_\_\_\_

Written Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

*Note: Certification as SCBA Master or above is required to Proctor at this level.*

Proctor's SIGNATURE: \_\_\_\_\_

Re-Take Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Location: \_\_\_\_\_

Written Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

Proctor's SIGNATURE: \_\_\_\_\_



**PUBLIC SERVICE CREDITS**

Briefly summarize the PSC Credits earned: *(10 Credits are required following the completion of Journeyman)*

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_

**DECLARED MAJOR: \_\_\_\_\_**

List Major Credits documented: *(3 of 10 credits are required within your declared major)*

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

List Core Credits documented: *(5 credits are required from outside your declared major)*

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_

Date Portfolio Submitted: \_\_\_\_\_ Complete PSC: \_\_\_\_\_ MAJOR: \_\_\_\_\_

Location: \_\_\_\_\_

SCMBP Committee Member(s) Reviewing: \_\_\_\_\_

SIGNATURES: \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ Date \_\_\_\_\_

**PRACTICAL EXAM**

Practical Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Location: \_\_\_\_\_

Practical Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

*Note: Certification as SCBA Master or above is required to Proctor at this level.*

Proctor's SIGNATURE: \_\_\_\_\_

I, \_\_\_\_\_, certify that I have owned/cared for honey bees  
(Print Candidate Name)

for at least 2 years following the completion of the Journeyman Level for a minimum of 4 years of  
beekeeping experience.

CANDIDATE SIGNATURE: \_\_\_\_\_

Date: \_\_\_\_\_

Re-Take Exam Date: \_\_\_\_\_ Score: \_\_\_\_\_

Location: \_\_\_\_\_

Practical Exam Proctor Name: \_\_\_\_\_

Proctor's SCBA Certification Level: \_\_\_\_\_

Proctor's SIGNATURE: \_\_\_\_\_

**MASTER  
CRAFTSMAN  
LEVEL**

**COVER  
SHEET**



# Master Beekeeper Program

ORAL EXAM SCORE: PASS / FAIL

PUBLIC SERVICE CREDITS: \_\_\_\_\_ (15)

MAJOR CREDITS: \_\_\_\_\_ (5)

CORE CREDITS: \_\_\_\_\_ (8)

COMMUNICATION SKILLS: PASS / FAIL

PRACTICAL EXAM SCORE: \_\_\_\_\_ PASS / FAIL

## MASTER CRAFTSMAN ORAL EXAM

Local Association: \_\_\_\_\_

Candidate Name: \_\_\_\_\_

Is Candidate a Current Member of the SC Beekeepers Association?    YES    NO    (circle one)  
*Note: Candidate MUST be a current year member of SCBA in order for any achievement to be recorded.*

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Oral Exam Date: \_\_\_\_\_      Score:      PASS / FAIL

Location: \_\_\_\_\_

Oral Exam Review Board: *(minimum of 3 expert individuals required)*

Name: \_\_\_\_\_

Qualifications: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

Name: \_\_\_\_\_

Qualifications: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

Name: \_\_\_\_\_

Qualifications: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

**PUBLIC SERVICE CREDITS**

Briefly summarize the PSC Credits earned: *(15 Credits are required – accumulated AFTER achieving the Master Level)*

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_

**DECLARED MAJOR: \_\_\_\_\_**

List Major Credits documented: *(5 additional of 10 credits are required within your declared major for a total of 8)*

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

List Core Credits documented: (8 additional credits are required from outside your declared major for a total of 13)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

Date Portfolio Submitted: \_\_\_\_\_ Complete PSC: \_\_\_\_\_ MAJOR: \_\_\_\_\_

Location: \_\_\_\_\_

SCMBP Committee Member(s) Reviewing: \_\_\_\_\_

SIGNATURES: \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ Date \_\_\_\_\_

**COMMUNICATION SKILLS**

Topic of Presentation: \_\_\_\_\_

Date Submitted to SCMBP for Review and Scheduling: \_\_\_\_\_

SCMBP Committee Member(s) Reviewing: \_\_\_\_\_

SIGNATURES: \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ Date \_\_\_\_\_

State Conference of Presentation: \_\_\_\_\_

Date of Presentation: \_\_\_\_\_

Additional Communication Skills Activities: (2 are required)

1. \_\_\_\_\_

2. \_\_\_\_\_

**RESEARCH PROJECT**

Briefly Describe the Topic/Scope of your Research Project: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date Submitted to SCMBP for Review of Topic: \_\_\_\_\_ Review of Final Project: \_\_\_\_\_

Research Project Review Board:

Name: \_\_\_\_\_  
Qualifications: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

Name: \_\_\_\_\_  
Qualifications: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

Name: \_\_\_\_\_  
Qualifications: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

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I, \_\_\_\_\_, certify that I have owned/cared for honey bees  
(Print Candidate Name)  
for at least 2 years following the completion of the Master Level for a minimum of 5 years of beekeeping  
experience.

CANDIDATE SIGNATURE: \_\_\_\_\_

Date: \_\_\_\_\_

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