Registration form

Ant Control CEU Training Course 48 HOUR RUSH ORDER PROCESSING FEE ADDITIONAL \$50.00

Start and finish dates: You will have 90 days from this date in order to complete this co	urse
Print Name_ I have read and understood the disclaimer notice	e found on pages 2, 3, 5 & 10. Signature is required.
Signature	
Address:	
City	StateZip
Phone: Home ()	Work ()
Fax ()	_ Email
License ID #	Exp. Date
Class/Grade_ Please circle/check which certification you are a	applying the course CEU's.
Commercial Applicator Residential Application	ator Industrial Applicator
Pesticide Handler Agricultural Applicator	Adviser Other
	PO Box 3060, Chino Valley, AZ 86323 928) 272-0747 E-Mail <u>info@tlch2o.com</u>
If you've paid on the Internet, please writ	e your Customer#5 digit number
	o digit ildilibei

Please pay with your credit card on our website under Bookstore or Buy Now. Or call us and provide your credit card information.

We will stop mailing the certificate of completion so we need either your fax number or e-mail address. We will e-mail the certificate to you, if no e-mail address; we will fax it to you.

Important Information about this Course (Disclaimer Notice)

This CEU course has been prepared to educate pesticide applicators and operators in general safety awareness of dealing with the often-complex and various pesticide treatment sprays, devices, methods, and applications. This course (manual) will cover general laws, regulations, required procedures and accepted policies relating to the use of pesticides and herbicides. It should be noted, however, that the regulation of pesticides and hazardous materials is an ongoing process and subject to change over time. For this reason, a list of resources is provided to assist in obtaining the most up-to-date information on various subjects. This manual is a not a guidance document for applicators or operators who are involved with pesticides. It is not designed to meet the requirements of the United States Environmental Protection Agency or your local State environmental protection agency or health department. This course manual will provide general pesticide safety awareness and should not be used as a basis for pesticide treatment method/device guidance. This document is not a detailed pesticide informational manual or a source or remedy for poison control.

Technical Learning College or Technical Learning Consultants, Inc. makes no warranty, guarantee or representation as to the absolute correctness or appropriateness of the information in this manual and assumes no responsibility in connection with the implementation of this information. It cannot be assumed that this manual contains all measures and concepts required for specific conditions or circumstances. This document should be used for educational purposes only and is not considered a legal document. Pesticides are poisonous. Always read and carefully follow all precautions and safety recommendations given on the container label. Store all chemicals in the original labeled containers in a locked cabinet or shed, away from food or feeds, and out of the reach of children, unauthorized persons, pets, and livestock.

Confine chemicals to the property or plants being treated. Avoid drift onto neighboring properties, especially gardens containing fruits and/or vegetables ready to be picked. Dispose of empty containers carefully. Follow label instructions for disposal. Never reuse containers. Make sure empty containers are not accessible to children or animals. Never dispose of containers where they may contaminate water supplies or natural waterways. Do not pour down sink or toilet. Consult your county agricultural commissioner for correct ways of disposing of excess pesticides. You should never burn pesticide containers.

Individuals who are responsible for pesticide storage, mixing and application should obtain and comply with the most recent federal, state, and local regulations relevant to these sites and are urged to consult with the EPA and other appropriate federal, state and local agencies.

USE PESTICIDES WISELY: ALWAYS READ THE ENTIRE PESTICIDE LABEL CAREFULLY, FOLLOW ALL MIXING AND APPLICATION INSTRUCTIONS AND WEAR ALL RECOMMENDED PERSONAL PROTECTIVE GEAR AND CLOTHING. CONTACT YOUR STATE DEPARTMENT OF AGRICULTURE FOR ANY ADDITIONAL PESTICIDE USE REQUIREMENTS, RESTRICTIONS OR RECOMMENDATIONS.

NOTICE: MENTION OF PESTICIDE PRODUCTS IN THIS COURSE DOES NOT CONSTITUTE ENDORSEMENT OF ANY MATERIAL OR HERB OR HERBAL SUPPLEMENT. ALWAYS FOLLOW THE PRODUCT'S LABEL INSTRUCTIONS.

NOTICE

I understand that it is my responsibility to ensure that this CEU course is either approved or accepted in my State for CEU credit. I understand State laws and rules change on a frequent basis and I believe this course is currently accepted in my State for CEU or contact hour credit, if it is not, I will not hold Technical Learning College responsible. I fully understand that this type of study program deals with dangerous, changing conditions and various laws and that I will not hold Technical Learning College, Technical Learning Consultants, Inc. (TLC) liable in any fashion for any errors, omissions, advice, suggestions or neglect contained in this CEU education training course or for any violation or injury, death, neglect, damage or loss of your license or certification caused in any fashion by this CEU education training or course material suggestion or error or my lack of submitting paperwork. It is my responsibility to call or contact TLC if I need help or assistance and double-check to ensure my registration page and assignment has been received and graded. It is my responsibility to ensure all information is correct and to abide with all rules and regulations.

DISCLAIMER NOTICE

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You can obtain a printed version of the course manual from TLC for an additional \$169.95 plus shipping charges.

AFFIDAVIT OF EXAM COMPLETION

I affirm that I personally completed the entire text of the course. I also affirm that I completed the exam without assistance from any outside source. I understand that it is my responsibility to file or maintain my certificate of completion as required by the state or by the designation organization.

Grading Information

In order to maintain the integrity of our courses we do not distribute test scores, percentages or questions missed. Our exams are based upon pass/fail criteria with the benchmark for successful completion set at 70%. Once you pass the exam, your record will reflect a successful completion and a certificate will be issued to you. For security purposes, please fax or e-mail a copy of your driver's license and always call us to confirm we've received your assignment and to confirm your identity.

Rush Grading Service

If you need this assignment graded and the results mailed to you within a 48-hour period, prepare to pay an additional rush service handling fee of \$50.00. This fee may not cover postage costs. If you need this service, simply write RUSH on the top of your Registration Form. We will place you in the front of the grading and processing line.

Do not solely depend on TLC's Approval list for it may be outdated.

Some States and many employers require the final exam to be proctored. http://www.abctlc.com/downloads/PDF/PROCTORFORM.pdf

A second certificate of completion for a second State Agency \$50 processing fee.

All downloads are electronically tracked and monitored for security purposes.

No refunds.

When finished with your assignment.

Please scan the Registration Page, Answer Key and Driver's License and email it to info@TLCH2O.com.

If you are unable to scan, take a photo of these documents with your iPhone and send these to TLC, <u>info@TLCH2O.com</u>.

If you are unable to scan and email, please fax these to TLC,

(928) 468-0675 If you fax, call to confirm that we received your paperwork.

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The Assignment must be submitted to TLC by December 27 in order to be submitted to DPR by the 31st. If it is late, you will be penalized \$50 per day.

CERTIFICATION OF COURSE PROCTOR

Technical Learning College requires that our students who takes a correspondence or home study program course must pass a proctored course reading, quiz and final examination. The proctor must complete and provide to the school a certification form approved by the commission for each examination administered by the proctor.

Instructions . When a student completes the course work, fill out the blanks in this section and provide the form to the proctor with the examination.
Name of Course:
Name of Licensee:
Instructions to Proctor. After an examination is administered, complete and return this certification and examination to the school in a sealed exam packet or in pdf format.
I certify that:
 I am a disinterested third party in the administration of this examination. I am not related by blood, marriage or any other relationship to the licensee which would influence me from properly administering the examination. The licensee showed me positive photo identification prior to completing the examination. The enclosed examination was administered under my supervision on
Time to complete the entire course and final exam.
Notation of any problem or concerns:
Name and Telephone of Proctor (please print):
Signature of Proctor

Ant Control CEU Training Course Answer Key

Name	Phone				
You are solely responsible in ensuring this course is accepted by your State for credit. Did you check with your State agency to ensure this course is accepted for credit?					
Method of Course a	cceptance confirmation. Ple	ase fill	this s	sectio	on
Website Telephone Ca	ıll Email Spoke to				
Did you receive the approx	val number, if applicable? _				
What is the course approv	al number, if applicable? _				
You are responsible to ensure Key. Please call us to ensure	re that TLC receives the Assigi re that we received it.	nment a	nd Re	gistra	ntion
Please circle or bold or X tl	he best answer Circle or i				sion
Topic 1 - One Node Ant Ide	#1 # entification and Control Sec	#2 #3 # tion	74 #5		
4. A B C D E	6. A B C D E 7. A B C D E 8. A B C D E 9. A B C D E 10. A B C D E	12. 13. 14.	АВ	C D C D	E E E
Topic 2 – Two Node Ant Identification and Control Section					
3. A B C D E 4. A B C D E	6. A B C D E 7. A B C D E 8. A B C D E 9. A B C D E 10. A B C D E	12. 13. 14.		C D C D	E E E
Topic 3 – Termite Section					
1. A B C D E 2. A B C D E 3. A B C D E 4. A B C D E 5. A B C D E	6. A B C D E 7. A B C D E 8. A B C D E 9. A B C D E 10. A B C D E	12. 13. 14.	A B A B A B A B A B	C D C D	E E E

Topic 4 – Topic 4 – Ant and Termite Management Section

1.	ABCDE	6. A B C D E	11.	$A\;B\;C\;D\;E$
2.	ABCDE	7. A B C D E	12.	$A\;B\;C\;D\;E$
3.	ABCDE	8. A B C D E	13.	$A\;B\;C\;D\;E$
4.	ABCDE	9. A B C D E	14.	ABCDE
5.	ABCDE	10. A B C D E	15.	ABCDE

Topic 5 – Topic 5 – Advanced Ant and Termite Management Section

1. A B C D E	6. A B C D E	11. A B C D E
2. A B C D E	7. A B C D E	12. A B C D E
3. A B C D E	8. A B C D E	13. A B C D E
4. A B C D E	9. A B C D E	14. A B C D E
5. A B C D E	10. A B C D E	15. A B C D E

I understand that I am 100 percent responsible to ensure that TLC receives the Assignment and Registration Key. I understand that TLC has a zero tolerance towards not following their rules, cheating or hostility towards staff or instructors. I need to complete the entire assignment for credit. There is no credit for partial assignment completion. My exam was proctored.

I will contact TLC if I do not hear back from them within 2 days of assignment submission. I will forfeit my purchase costs and will not receive credit or a refund if I do not abide with TLC's rules.

California DPR Requirement

The Assignment must be submitted to TLC by December 27 in order to be submitted to DPR by the 31st. If it is late, you will be penalized \$50 per day.

Please Sign that you understand and will abide with TLC's Rules.

Signature			

Please e-mail this survey along with your final exam

ANT CONTROL CEU COURSE PROFESSIONAL DEVELOPMENT COURSE

CUSTOMER SERVICE RESPONSE CARD

NA	ME:						
E-N	//AIL				PH	ONE	
	EASE COMPLE PROPRIATE AI					ΤΗΕ Ι	NUMBER OF THE
1.	Please rate the Very Easy	difficulty of 0 1	your co 2	urse. 3	4	5	Very Difficult
2.	Please rate the Very Easy	difficulty of 0 1	the test	ing pro	cess. 4	5	Very Difficult
3.	Please rate the Very Similar	subject ma 0 1	tter on t 2	he exa 3	m to yo	ur ac 5	tual field or work. Very Different
4.	How did you he	ar about th	is Cours	e?			
5.	What would you	ı do to impr	ove the	Course	e?		
Poo	w about the price or Fair w was your custor	Average _	Goo				
	or Fair /	<u> </u>	<u> </u>		Great		

ASSIGNMENT INSTRUCTIONS

- 1. We will require all students to fax or e-mail a copy of their driver's license with the registration form.
- 2. You will need to pick one of the following four assignments to complete. This selection process is based upon your last name.
- 3. If your last name begins with an A to G, you will pick assignment number 1, if your last name begins with the letter H to P, you are to complete assignment number 2 and if your last name begins with the letter Q-S, you will pick assignment number 3, and if your last name begins with the letter T-Z, you will pick assignment number 4.

Assignment # 1 for all pest applicators whose last name begins with A-G you will find your assignment on pages 11-20.

Assignment #2 for all pest applicators whose last name begins with the letter H-P, your assignment is found on pages 21-30.

Assignment #3 for all pest applicators whose last name begins with the letter Q-S, your assignment is found on pages 31-40.

Assignment #4 for all pest applicators whose last name begins with the letter T-Z, your assignment is found on pages 41-51.

Return students: Your assignment is number 5 - pages 53-62

AFFIDAVIT OF EXAM COMPLETION

I affirm that I personally completed the entire text of the course. I also affirm that I completed the exam without assistance from any outside source. I understand that it is my responsibility to file or maintain my certificate of completion as required by the state or by the designation organization.

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For security purposes, please fax or e-mail a copy of your driver's license and always call us to confirm we've received your assignment and to confirm your identity.

Thank you...

Ant Control CEU Training Awareness Assignment #1 Last Names A-G

You will have 90 days from the start of this course to have successfully passed this assignment with a score of 70 %. You may e mail the answers to TLC, info@tlch2o.com or fax the answers to TLC, (928) 272-0747. This assignment is available to you in a Word Format on TLC's Website. Once you have paid the course fee, you will be provided complete course support from Student Services (928) 468-0665.

Write your answers on the Answer Key found in the front of this assignment.

Topic 1 - 1 Node Ant Identification and Control Section

C. Alate

Ant Introduction 1. Ants are beneficial organisms in the balance of nature. In nature, ants greatly reduce the amount of dead and decaying plant and animal organic matter. They also aerate the soil with their nests. A. TRUE B. FALSE
 Insecticide sprays and baits can be used to kill foraging ants and destroy nests, bu strategies designed to prevent further infestations should be used in conjunction with chemical treatment. TRUE B. FALSE
3. Ants can be controlled with a combination of good sanitation, removing, caulking entry points, and eliminating active nests. A. Active nests D. Pheromone trails B. Ant infestations E. None of the Above C. Nest galleries
 4. Which of the following are attached to the head; these organs detect chemicals, ai currents, and vibrations; they also are used to transmit and receive signals through touch? A. Eyes D. Wings B. Mesosoma ("thorax") E. None of the Above C. Two antennae ("feelers")
5. Both theof the ant are attached to the mesosoma. The legs terminate in a hooked claw which allows them to hook on and climb surfaces. A. Reproductive structures D. Arms and wings B. Legs and wings E. None of the Above C. Arms and legs
6. Queens shed their wings after the nuptial flight, leaving visible stubs, a distinguishing feature of queens. In a few species,and males occur. A. Soldier(s) D. Wingless queens (ergatoids) B. Worker(s) F. None of the Above

Metasoma 7. The metasoma of the ant contains important internal organs, including those of th reproductive, respiratory, and A. Egg-laying structures D. Wings B. Excretory systems E. None of the Above C. Stinger(s)
8. Workers of many species have their egg-laying structures modified into that are used for subduing prey and defending their nests. A. Egg-laying structures D. Wings B. Excretory systems E. None of the Above C. Stinger(s)
IPM Control Program 9. An Integrated Pest Management approach offers a slight chance for control of ants. A IPM approach suggests but a few of control methods into a pest management program. IPM methods include chemical strategies. A. TRUE B. FALSE
Carpenter Ants - 1 Node ant – Wood Destroyer 10. Because carpenter ants keep the very clean and push the sawdus and dead insect parts out small holes in the wood, a small, fresh pile of sawdust under the nest timber is the usual sign of an active carpenter ant nest. A. Active nests
11. Once a nest is found, treatment is usually easy with either an insecticide dust or spray Which of the following into wall voids or the nest itself may be necessary to reinsur complete control? A. Insecticide dilutions D. Spray the product in a band B. Injection of insecticide E. None of the Above C. Bait treatments
12. To prevent further carpenter ant infestations, trim all trees and bushes so branches d not touch the house and correctsuch as leaky roofs and plumbing. A. Active nests
Indoors 13. Nests are often concealed in wall voids, ceilings, subfloors, attics, or hollow doors. It is usually necessary for a professional pest control applicator to drill small (about 1/8 inchables and apply an insecticidal dust into the nest area. It is best to determine the nest location as specifically as possible. A. TRUE B. FALSE
14. If it is difficult to locate the nest, a(n)can be applied into wall void through electrical outlets. A. Insecticide dilutions D. Spray the product in a band B. Insecticidal dust E. None of the Above C. Bait treatments

Perimeter Insecticide Treat 15. The most commonly use of a home with a	ed method for controllin	g carpenter ants is treating the perimeter
of a home with aA. Insecticide dilution B. Dust or spray C. Bait treatment	D. Spray product E. None of the Above	
Please complete all the t	opics before submit	ting the answer key.
		l Control Section containing hydramethylnon, sulfluramid,
abamectin, or boric acid. A. Insecticide dilutions B. Dust or spray C. Bait treatments	D. Liquid or granular for E. None of the Above	
outside nest? A. Insecticide dilutions	•	ticides can be used to control ants in the
	pel recommendations for	
When this is not practical,	and carpenter ants ha nent with a home. D. Non-residual insec	
5. Which of the following m of the siding to help keep and A. Insecticide dilutionsB. DustC. Bait treatments		
		aits, crack and crevice treatments, indoor proadcast treatments, as well as void and

- 7. Since ants do not rely on trophallaxis, the bait toxicant cannot be thoroughly distributed to the members of the colony, including the gueen and brood.
- A. TRUE B. FALSE
- 8. Quick-kill insecticides and baits will only kill the foraging ants, not allowing the foraging ants to take the bait back home to feed the queen, nest workers and brood.

A. TRUE B. FALSE

Key

9. The key to using baits is excess. Applied properly and using a fresh bait product, a broadcast application will give 50% to 60% control, rarely 70%.

A. TRUE B. FALSE

Carpenter Ant Infestations

10. To prevent further carpenter ant infestations, trim all trees and bushes so branches do not touch the house and correct moisture problems such as leaky roofs and plumbing. Paint and/or seal exposed wood construction before it becomes wet.

A. TRUE B. FALSE

Signs and Symptoms of Pesticide Poisoning Recognizing Signs and Symptoms of Poisoning

11. Anyone who may become exposed to pesticides should be aware of the signs and symptoms of pesticide poisoning.

A. TRUE B. FALSE

12. Prompt action during pesticide overexposure will not prevent serious consequences. Poisoning signs cannot be seen by others, for example, vomiting, sweating, or pin-point pupils.

A. TRUE B. FALSE

Severe Symptoms

13. In a pesticide emergency, identify the pesticide to which the victim was exposed. Provide this information to medical authorities.

A. TRUE B. FALSE

14. Some of these poisoning symptoms may feel like a cold, flu, or heat exhaustion. Some people may have an allergic reaction to plants, fertilizers, or other chemicals used in agriculture. It is best to see a doctor if any of these symptoms are present.

A. TRUE B. FALSE

15. Recognize the signs and symptoms of pesticide poisoning for those pesticides you commonly use or to which you may be exposed. If you suspect a pesticide poisoning, get immediate help from a local hospital, physician, or the nearest poison control center.

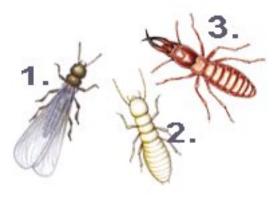
Topic 3 – Termite Section

15 Final Questions

Answer key in front.

Identify the following pictures.

- 1. This is _____?
- A. Soldier
- B. Worker
- C. Swarmer
- D. Queen
- E. None of the Above
- 2. This is
- A. Soldier
- B. Worker
- C. Swarmer
- D. Queen
- E. None of the Above
- 3. This is _____ ?
- A. Soldier
- B. Worker
- C. Swarmer
- D. Queen
- E. None of the Above
- 4. This is _____?
- A. Soldier
- B. Worker
- C. Swarmer
- D. Queen
- E. None of the Above





- 5. The colony may be up to 18-20 feet deep in the ground. The ground serves as a protection against _____ and provides a moisture reservoir.
- A. Treatments
- D. Extreme temperatures
- B. Ants
- E. None of the Above
- C. Enemies
- 6. Termites reach wood or this missing term above ground by constructing and traveling through mud tubes?
- A. Nest

- D. Wood of a structure
- B. Cellulose materials
- E. None of the Above

C. Mud

7. Which of the following is native to most forest areas where it performs the important task of breaking down the large quantities of dead and fallen trees and other sources of cellulose that continuously accumulate in the forests. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Drywood termite(s)
8. Which of the following termites are responsible for guarding the colony and its occupants? Termites continually groom each other to obtain certain secretions. These secretions help regulate the number of individuals in the various castes. A. Soldier(s) D. Nymph(s) B. Worker(s) E. None of the Above C. Reproductive(s)
 9. Which of the following travel in these mud shelter tubes as protection from predators, sunburn, and dehydration and to maintain a high humidity environment which is essential for their survival? A. Formosan termite(s) B. Desert subterranean termite(s) C. Drywood termite(s)
10. Which of the following do not need a connection to soil and there is no soil in their feeding galleries? They do not build mud tunnels; they construct large, irregular galleries that run across and with the wood grain, with a very smooth, clean, and sandpaper-like appearance. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Drywood termite(s)
11. Which of the following are highly secretive, preferring to enter a building through areas inaccessible to inspection, such as, through in-fill patios, fire heaths, expansion joints and cracks in concrete slab (on-ground) flooring? A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)
12. Which of the following can pass through a 1/8" crack or an expansion joint (eating through the rubber compound) between adjoining concrete on ground flooring. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)
13. Which of the following can also travel under timber parquetry and other floor tiles to get to the wall framing timbers in a building? A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)

	(s) D. Western subterranean termite(s) or Subterranean ean termite(s) E. None of the Above
Subterranean or the I A. Formosan termite	(s) D. Western subterranean termite(s) or Subterranean ean termite(s) E. None of the Above
-	nowever, is only minimally toxic, and humans, other mammals, and growing plants. D. Boron E. None of the Above
based contents appe A. Termidor®	treated wood for construction of homes and their wood- ars to offer many advantages to today's environmentally sensitive world. D. Borate E. None of the Above
	wing is the only termiticide from the pyrrole family of chemistry and is stomach poison with some contact activity. It is also non-repellent to D. Chlorfenapyr E. None of the Above
U.S. in 1996. It is ma	rinsecticide in this new class, introduced in 1990 and registered in the rketed as a termiticide under the tradename This expellent material with contact and stomach activity. D. Chlorfenapyr E. None of the Above
	Dillowing works by blocking the gamma-aminobutyric acid (GABA) nannel in neurons, thus disrupting the activity of the insect's central D. Chlorfenapyr E. None of the Above

Termite Product Applications 6. Drilling may be required along the foundation walls, along one side of partition walls, along both sides of, around sewer pipes, floor drains, conduits, and any crack in the basement floor. A. Insecticide barrier D. Interior vertical barrier B. Load-bearing wall E. None of the Above C. Crawl space area
 7. Using a sub-slab injector, inject the insecticide at the rate of 4 gallons per 10 linear feet. For an insecticide barrier around the, apply an insecticide by rodding and/or trenching. A. Exterior of foundation walls D. Interior vertical barrier B. Continuous chemical barrier E. None of the Above C. Crawl space area
8. The rod holes should be spaced 1 to 1 1/2 feet apart to provide a If a trench is necessary, it should not be wider than 6 inches. Inject insecticide using rodding technique at the rate of 4 gallons per 10 linear feet. Cover the trench with untreated soil. A. Insecticide barrier
Crawl Spaces 9. Establish by rodding and/or trenching procedures. A shallow trench should not be wider than 6 inches. Space rod holes about 1 to 1 1/2 feet apart. A. Insecticide barrier(s) D. Vertical barrier(s) B. Continuous chemical barrier(s) E. None of the Above C. Crawl space area(s)
10. Apply insecticide at the rate of 4 gallons per 10 linear feet per foot of depth. Do not treat soil in with a broadcast insecticide spray. A. Insecticide barrier B. Continuous chemical barrier C. Crawl space area D. Interior vertical barrier E. None of the Above
11. Treat through masonry voids to provide a at the top of the footing. A. Insecticide barrier D. Spray barrier B. Continuous chemical barrier E. None of the Above C. Treatment
12. When is necessary, access holes must be drilled through mortar joints below the sill plate, as close as possible to the footing. Apply insecticide at the rate of 2 gallons per 10 linear feet. Plug all holes with mortar or any other special compound. A. Insecticide barrier

13. Control products containing inorganic borate can be applied to lumber at the time of construction, or later if exposed, to provide lifetime protection from as long as the wood remains dry. A. Infestation D. Complete termite treatment B. Chemical barrier E. None of the Above C. Contamination
14. State regulations require pest control operators to remove termite tubes as part of a
A. Termite infestation B. Continuous chemical barrier C. Lifetime protection D. Complete termite treatment E. None of the Above
15. Removing the tubes provides a way to determine if a remains active after treatment or if the termites reappear in the same area later. A. Termite infestation D. Complete termite treatment B. Continuous chemical barrier E. None of the Above C. Lifetime protection
Topic 5- Advanced Ant and Termite Management Section Identify the pesticide trade name with the common name. 1. Ficam 2. Cypermethrin 3. Bendiocarb 4. Cypermethrin 5. None of the Above 6. Chlorpyrifos
 2. Equity A. Cypermethrin B. Bendiocarb C. Chlorpyrifos D. Permethrin E. None of the Above
Fumigation Application 3. Application methods differ depending upon (i) the fumigant formulation being used, (ii) site/area being treated and (iii) the weather. A. TRUE B. FALSE
4. When liquid phosphine (liquefied gas or liquefied gas under pressure) is used as a fumigant, it is introduced into the treated site in five gallon buckets where it disperses as a gas for quick distribution throughout the fumigated area. A. TRUE B. FALSE
Adjacent Enclosed Area 5. If people or domestic animals may enter into this area during the fumigation or aeration process, you are required to conduct monitoring to be sure no one is exposed above the permitted level of 30 ppm on an 8-hour time weighted average. A. TRUE B. FALSE
Fumigation Management Plan

6. A Fumigation Management Plan (FMP) is a written description of the steps designed to plan for a safe, legal and effective fumigation.

- 7. Most fumigation activities are carried out by a certified applicator or by a handyman under the direct supervision of a certified applicator.
- A. TRUE B. FALSE

Monitoring for Safety

- 8. Monitoring for safety is always suggested unless it can be confirmed/concluded by the certified applicator that there is slight possibility of exposure to phosphine at or above the allowable limits to workers or bystanders.
- A. TRUE B. FALSE
- 9. Monitoring may be done if there is even the slightest possibility of non-exposure. Exposures to phosphine must can exceed the 8-hour Time Weighted Average of 0.3 ppm or the 15-minute Short-Term Exposure Limit (STEL) of 1.0 ppm.
- A. TRUE B. FALSE

Termite Control Methods Summary

- 10. All termite control methods can be categorized as either whole structure or localized. A whole-structure treatment is defined as the simultaneous treatment of all infestations, accessible and inaccessible, in a structure.
- A. TRUE B. FALSE
- 11. Localized or spot treatment is more restrictive and is often applied to a single board or small group of boards.
- A. TRUE B. FALSE
- 12. Whole-structure treatments have an advantage over localized treatments in that they should eliminate all infestations, even hidden ones. With the uncertainty of current detection methods, particularly when drywall or other wall coverings conceal infestations, there is always some doubt as to the extent of drywood termite colony boundaries and the number of colonies within homes.
- A. TRUE B. FALSE
- 13. Sulfuryl fluoride kills drywood termites within several months. A monitored fumigation, which involves installing gas monitoring lines inside the structure undergoing treatment, has the lowest rate of treatment success.
- A. TRUE B. FALSE
- 14. There are many localized treatment methods available that include both chemical and nonchemical options. For liquid and dust insecticides to be effective, termites must make contact with them or ingest them.
- A. TRUE B. FALSE
- 15. The benefit of using a repellent product instead of a bait product is that repellents can be used both inside and outside the home. If a termite gets past the barriers to entry (the liquid repellent), the termite will encounter the repellent that makes the environment inhospitable.
- A. TRUE B. FALSE

Ant Control CEU Training Awareness Assignment #2 Last Names H-P

You will have 90 days from the start of this course to have successfully passed this assignment with a score of 70 %. You may e mail the answers to TLC, info@tlch2o.com or fax the answers to TLC, (928) 272-0747. This assignment is available to you in a Word Format on TLC's Website. Once you have paid the course fee, you will be provided complete course support from Student Services (928) 468-0665.

Topic 1 - 1 Node Ant Identification and Control Section

•
 Ants are beneficial organisms in the balance of nature. In nature, ants greatly reduce the amount of dead and decaying plant and animal organic matter. They also aerate the soil with their nests. TRUE B. FALSE
Ants can be controlled with a combination of good sanitation, removing, caulking entry points, and eliminating active nests. A. Active nests
 Insecticide sprays and baits can be used to kill foraging ants and destroy nests, but strategies designed to prevent further infestations should be used in conjunction with chemical treatment. TRUE B. FALSE
 4. Ant infestations are not easy to control and different strategies should be used depending onof the ants. A. Active nests D. Nest location and food preferences B. Ant infestations E. None of the Above C. Nest galleries
5. The head has two strong jaws, the mandibles, used to carry food, manipulate objects, construct nests, and for defense. In some species, a small pocket () inside the mouth stores food, so it may be passed to other ants or their larvae. A. Storage structures D. Infrabuccal chamber B. Mesosoma ("thorax") E. None of the Above C. Throat
6. Both the of the ant are attached to the thorax. The legs terminate in a hooked claw which allows them to hook on and climb surfaces. A. Reproductive structures D. Arms and wings B. Legs and wings E. None of the Above C. Arms and legs
7. Workers of many species have their egg-laying structures modified into that are used for subduing prey and defending their nests. A. Egg-laying structures D. Wings B. Excretory systems E. None of the Above C. Stinger(s)

usually smaller than most other	bout 3/8" to 1/2" long) and house- infesting ants. The ination of black and dull re	black or red. Carpenter ants are y vary in color from a dull black or ed or reddish-orange. Soldier ants
nest.	se of a Bait or residual contact ins	applied as a dust or spray to the
	None of the Above	
10. Carpenter ants are least outside. By following the ants, yo A. TRUE B. FALSE		rs, foraging for all kinds of food, where the nest is.
	al damage. Outdoors, the a	s. If they go unnoticed for several ants use dead trees or tree limbs,
	I holes in the wood, a sma an active carpenter ant nest led galleries	very clean and push the sawdust II, fresh pile of sawdust under the

13. To prevent further carpenter ant infestations, trim all trees and bushes so branches do not touch the house and correct _____such as leaky roofs and plumbing.

A. Active nests D. Electrical outlets

B. Wall voids E. None of the Above

C. Moisture problems

14. If it is difficult to locate the nest, a(n) _____can be applied into wall voids through electrical outlets.

A. Insecticide dilutions D. Spray the product in a band

C. Bait treatments

15. Nests are often concealed in wall voids, ceilings, subfloors, attics, or hollow doors. It is usually necessary for a professional pest control applicator to drill small (about 1/8 inch) holes and apply an insecticidal dust into the nest area. It is best to determine the nest's location as specifically as possible.

A. TRUE B. FALSE

Please complete all the topic section before submitting your answer key.

Topic 2 - 2 Node Ant Identification and Control Section

A Mark makell more death and		4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
 Most retail products are abamectin, or boric acid. Insecticide dilutions Dust or spray Bait treatments 	D. Liquid or granular form E. None of the Above		sulfluramid,
2. Which of the following mi outside nest?A. Insecticide dilutionsB. CelloseC. Bait treatments	ssing terms and insecticide D. Product in a band E. None of the Above	es can be used to control	ants in the
3. Which of the following mests? Be sure to follow lab insecticide.A. Insecticide dilutionsB. Dust or sprayC. Bait treatments		orrect procedures when a	
4. Often carpenter ant nests parent colony outdoors in trowood structures.A. TRUE B. FALSE			
5. Which of the following mi of the siding to help keep antA. Insecticide dilutionsB. DustC. Bait treatments	s from coming inside?		lower edge
6. When possible, remove of When this is not practical, a from outdoor nests, a treatm helps keep them out of your had. Insecticide dilutions B. Residual insecticide C. Bait treatments	nd carpenter ants have bent with a	peen discovered entering around the buildir	your home
Pesticide Treatments Gene 7. Chemical Control. Ants ca space and surface treatments attic treatments. A. TRUE B. FALSE	n be controlled with baits,		
8. Since ants do not rely of thoroughly distributed to the real A. TRUE B. FALSE			

- 9. Quick-kill insecticides and baits will only kill the foraging ants, not allowing the foraging ants to take the bait back home to feed the queen, nest workers and brood.
- A. TRUE B. FALSE
- 10. The key to using baits is excess. Applied properly and using a fresh bait product, a broadcast application will give 50% to 60% control, rarely 70%.

A. TRUE B. FALSE

Nest Treatments

11. Unless you can treat the nest directly, spraying is an effective solution for small ants, never use a non-repellent insecticides or "undetectable" liquid treatments such as Dominion 2L, Termidor or Phantom. Phantom liquid of aerosol is labeled for the inside.

A. TRUE B. FALSE

Carpenter Ant Infestations

12. To prevent further carpenter ant infestations, trim all trees and bushes so branches do not touch the house and correct moisture problems such as leaky roofs and plumbing. Paint and/or seal exposed wood construction before it becomes wet.

A. TRUE B. FALSE

Signs and Symptoms of Pesticide Poisoning Recognizing Signs and Symptoms of Poisoning

13. Anyone who may become exposed to pesticides should be aware of the signs and symptoms of pesticide poisoning.

A. TRUE B. FALSE

14. Prompt action during pesticide overexposure will not prevent serious consequences. Poisoning signs cannot be seen by others, for example, vomiting, sweating, or pin-point pupils.

A. TRUE B. FALSE

15. Recognize the signs and symptoms of pesticide poisoning for those pesticides you commonly use or to which you may be exposed. If you suspect a pesticide poisoning, get immediate help from a local hospital, physician, or the nearest poison control center.

A. TRUE B. FALSE

Topic 3 – Termite Section

15 Final Questions

				its

Termites feed mainly on wood and wood products containing _____

A. Moisture D. Wood

B. Cellulose(s)

E. None of the Above

C. Mud

2. Termites have special protozoa in their intestine that provide enzymes to digest

A. Moisture

D. Wood

B. Cellulose(s)

E. None of the Above

C. Mud

Below Ground Termite Colonies 3. The colony may be up to 18-20 feet deep in the ground. The ground serves as a protection against and provides a moisture reservoir. A. Treatments
 4. Termites reach wood or this missing term above ground by constructing and traveling through earthen (mud) tubes? A. Nest D. Wood of a structure B. Cellulose materials E. None of the Above C. Mud
Above Ground Termite Colonies 5. Which of the following do not need a connection to soil and there is no soil in their feeding galleries? They do not build mud tunnels; they construct large, irregular galleries that run across and with the wood grain, with a very smooth, clean, and sandpaper-like appearance. A. Drywood termites D. Western subterranean termite(s) B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)
 6. Which of the following termites are responsible for guarding the colony and its occupants? Termites continually groom each other to obtain certain secretions. These secretions help regulate the number of individuals in the various castes. A. Soldier(s) D. Nymph(s) B. Worker(s) E. None of the Above C. Reproductive(s)
7. Which of the following travel in these mud shelter tubes as protection from predators, sunburn, and dehydration and to maintain a high humidity environment which is essential for their survival? A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Drywood termite(s)
8. Which of the following do not need a connection to soil and there is no soil in their feeding galleries? They do not build mud tunnels; they construct large, irregular galleries that run across and with the wood grain, with a very smooth, clean, and sandpaper-like appearance. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Drywood termite(s)
9. Which of the following are highly secretive, preferring to enter a building through areas inaccessible to inspection, such as, through in-fill patios, fire heaths, expansion joints and cracks in concrete slab (on-ground) flooring? A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean

B. Desert subterranean termite(s)C. Pacific Dampwood termite(s)

10. Which of the following can pass through a 1/8" crack or an expansion joint (eating through the rubber compound) between adjoining concrete on ground flooring. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)
11. Which of the following can also travel under timber parquetry and other floor tiles to get to the wall framing timbers in a building? A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)
12. Which of the following have acute survival instincts? If they are shaken up or disturbed, the termites often will abandon the associated area and move on to secretly cause damage in other areas in the building. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Drywood termite(s)
13. Which of the following have three primary castes: nymphs, reproductives and soldiers. The reproductive, also known as alates, are often up to ¾-inches long and have dark-brown wings and dark-brown bodies? Nymphs are cream colored and soldiers have brownish-colored heads with very large mouthparts that are used to help defend the colony from predators. A. Formosan termite(s) D. Nevada Drywood termite(s) B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)
14. Which of the following are found in Arizona, New Mexico, Texas, and Southern California. Living where the habitat is dry and arid in these regions of the United States. They ingest damp wood that is buried in the ground. Munching termites attack tree roots, bushes, doorframes and fence posts. The Dampwood also feeds on live trees – wood that is under ground level. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Desert Dampwood termite(s)
15. Which of the following are almost an inch long that is quite a bit larger than the Subterranean or the Drywood variety. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Dampwood termite(s)
Topic 4 – Ant and Termite Management 1. Though the mechanisms of toxicity are not fully understood,is very toxic to insects and decay fungi that commonly damage wood in structures. A. Boron D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin

 2. Which of the following is registered as a termiticide under the tradename Phantom®. A. Termidor® D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin
3. Which of the following acts on the mitochondria of cells and uncouples or inhibits oxidative phosphorylation, preventing the formation of the crucial energy molecule adenosine triphosphate (ATP)? As a result, energy production in the cells shuts down, resulting in cellular and, ultimately, termite death. A. Termidor® D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin
 4. Fipronil is the only insecticide in this new class, introduced in 1990 and registered in the U.S. in 1996. It is marketed as a termiticide under the tradename This termiticide is a non-repellent material with contact and stomach activity. A. Termidor® D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin
 5. Which of the following works by blocking the gamma-aminobutyric acid (GABA) regulated chloride channel in neurons, thus disrupting the activity of the insect's central nervous system. A. Boron D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin
Termite Product Applications Building With a Basement and Crawl Space 6. Basement: For a(n), drill the floor slab and space holes about one foot apart. A. Insecticide barrier
7. Drilling may be required along the foundation walls, along one side of partition walls along both sides of, around sewer pipes, floor drains, conduits, and any crack in the basement floor. A. Insecticide barrier D. Interior vertical barrier B. Load-bearing wall E. None of the Above C. Crawl space area
8. Using a sub-slab injector, inject the insecticide at the rate of 4 gallons per 10 linear feet For an insecticide barrier around the, apply an insecticide by rodding and/o trenching. A. Exterior of foundation walls D. Interior vertical barrier B. Continuous chemical barrier E. None of the Above C. Crawl space area

The rod holes should be spaced	1 to 1 1/2 feet apart to provide a
If a trench is necessary, it should no technique at the rate of 4 gallons per	ot be wider than 6 inches. Inject insecticide using rodding r 10 linear feet. Cover the trench with untreated soil. D. Interior vertical barrier
Crawl Spaces 10. Establish trench should not be wider than 6 inc A. Insecticide barrier(s) B. Continuous chemical barrier(s) C. Crawl space area(s)	by rodding and/or trenching procedures. A shallow ches. Space rod holes about 1 to 1 1/2 feet apart. D. Vertical barrier(s) E. None of the Above
11. Apply insecticide at the rate of 4 soil in w A. Insecticide barrier B. Continuous chemical barrier C. Crawl space area	
12. Treat through masonry voids footing.A. Insecticide barrierB. Continuous chemical barrierC. Treatment	to provide a at the top of the D. Spray barrier E. None of the Above
mortar joints below the sill plate, as	is necessary, access holes must be drilled through close as possible to the footing. Apply insecticide at the Plug all holes with mortar or any other special compound. D. Interior vertical barrier E. None of the Above
14. Removing the tubes provides a after treatment or if the termites reaptA. Termite infestationB. Continuous chemical barrierC. Lifetime protection	D. Complete termite treatment

Topic 5- Advanced Ant and Termite Management Section

Adjacent Enclosed Area

1. If people or domestic animals may enter into this area during the fumigation or aeration process, you are required to conduct monitoring to be sure no one is exposed above the permitted level of 30 ppm on an 8-hour time weighted average.

A. TRUE B. FALSE

Fumigation Management Plan

2. A Fumigation Management Plan (FMP) is a written description of the steps designed to plan for a safe, legal and effective fumigation.

A. TRUE B. FALSE

3. A new FMP is needed for every fumigation of an individual facility if conditions will vary other than general updates such as temperature and humidity recordings. The FMP and related documentation, including monitoring records, must be maintained for a minimum of 2 months.

A. TRUE B. FALSE

4. Before proceeding with a fumigation, the client and/or certified applicator does not need to consult with the State lead pesticide regulatory agency to determine regulatory status, requirements, and restrictions for use of fumigants in that state.

A. TRUE B. FALSE

Monitoring for Safety

5. Monitoring for safety is always suggested unless it can be confirmed/concluded by the certified applicator that there is slight possibility of exposure to phosphine at or above the allowable limits to workers or bystanders.

A. TRUE B. FALSE

6. Monitoring may be done if there is even the slightest possibility of non-exposure. Exposures to phosphine must can exceed the 8-hour Time Weighted Average of 0.3 ppm or the 15-minute Short-Term Exposure Limit (STEL) of 1.0 ppm.

A. TRUE B. FALSE

Termite Control Methods Summary

7. All termite control methods can be categorized as either whole structure or localized. A whole-structure treatment is defined as the simultaneous treatment of all infestations, accessible and inaccessible, in a structure.

A. TRUE B. FALSE

8. Localized or spot treatment is more restrictive and is often applied to a single board or small group of boards.

A. TRUE B. FALSE

9. Whole-structure treatments have an advantage over localized treatments in that they should eliminate all infestations, even hidden ones. With the uncertainty of current detection methods, particularly when drywall or other wall coverings conceal infestations, there is always some doubt as to the extent of drywood termite colony boundaries and the number of colonies within homes.

Whole-Structure Treatment or Fumigation

10. Sulfuryl fluoride treats all infestations simultaneously and has low levels of efficacy, if correctly applied.

A. TRUE B. FALSE

11. Sulfuryl fluoride kills drywood termites within several months. A monitored fumigation, which involves installing gas monitoring lines inside the structure undergoing treatment, has the lowest rate of treatment success.

A. TRUE B. FALSE

12. Non-monitored fumigation may not have enough gas concentration to kill infestations, and failures may occur.

A. TRUE B. FALSE

Heat

13. Heat is a nonchemical option for whole-structure treatment. The treatment process involves heating all wood in the structure to a minimum of 220°F and holding this temperature for at least 33 minutes.

A. TRUE B. FALSE

Localized Treatments

14. There are many localized treatment methods available that include both chemical and nonchemical options. For liquid and dust insecticides to be effective, termites must make contact with them or ingest them.

A. TRUE B. FALSE

Liquid Application with Repellent

15. The benefit of using a repellent product instead of a bait product is that repellents can be used both inside and outside the home. If a termite gets past the barriers to entry (the liquid repellent), the termite will encounter the repellent that makes the environment inhospitable.

Ant Control CEU Training Awareness Assignment #3 Last Names Q-S

You will have 90 days from the start of this course to have successfully passed this assignment with a score of 70 %. You may e mail the answers to TLC, info@tlch2o.com or fax the answers to TLC, (928) 272-0747. This assignment is available to you in a Word Format on TLC's Website. Once you have paid the course fee, you will be provided complete course support from Student Services (928) 468-0665.

Write your answers on the Answer Key found in the front of this assignment.

Topic 1 - 1 Node Ant Identification and Control Section

 Insecticide sprays and baits can be used to kill foraging ants and destroy nests, be strategies designed to prevent further infestations should be used in conjunction with chemical treatment. TRUE B. FALSE
 Ants are beneficial organisms in the balance of nature. In nature, ants greatly reduce the amount of dead and decaying plant and animal organic matter. They also aerate the soil with their nests. TRUE B. FALSE
 3. Ant infestations are not easy to control and different strategies should be used depending on of the ants. A. Active nests D. Nest location and food preferences B. Ant infestations E. None of the Above C. Nest galleries
4. Ants can be controlled with a combination of good sanitation, removing caulking entry points, and eliminating active nests. A. Active nests D. Pheromone trails B. Ant infestations E. None of the Above C. Nest galleries
5. The head has two strong jaws, the mandibles, used to carry food, manipulate object construct nests, and for defense. In some species, a small pocket (
Mesosoma 6. Both theof the ant are attached to the mesosoma. The leg terminate in a hooked claw which allows them to hook on and climb surfaces. A. Reproductive structures D. Arms and wings B. Legs and wings E. None of the Above C. Arms and legs

7. The metasoma of the ant contains important internal organs, including those of the reproductive, respiratory, and A. Egg-laying structures D. Wings B. Excretory systems E. None of the Above C. Stinger(s)
IPM Control Program 8. An IPM approach offers a slight chance for control of ants. An IPM approach suggests but a few of control methods into a pest management program. IPM methods include chemical strategies. A. TRUE B. FALSE
Carpenter Ants - 1 Node ant – Wood Destroyer 9. Carpenter ants tunnel into wood to form nest galleries. If they go unnoticed for several years, they may cause structural damage. Outdoors, the ants use dead trees or tree limbs, stumps, logs or areas under stones as nesting sites. A. TRUE B. FALSE
10. Carpenter ants are large (about 3/8" to 1/2" long) and black or red. Carpenter ants are usually smaller than most other house- infesting ants. They vary in color from a dull black or reddish yellow color to a combination of black and dull red or reddish-orange. Soldier ants range in size from 5/16 to 7/16 inches long. A. TRUE B. FALSE
11. Treatment options include use of aapplied as a dust or spray to the
nest. A. Insecticide dilutions B. Dust or spray C. Bait treatments D. Bait or residual contact insecticide E. None of the Above
12. Read and follow the product label for best results. It may be necessary to drill small holes in the wall voids, baseboards, and window and doorsills to reach the nest or major part of the colony. Nests can also be removed and infested wood replaced, if feasible. A. TRUE B. FALSE
13. Carpenter ants are least active in the evening hours, foraging for all kinds of food, outside. By following the ants, you will never be able to tell where the nest is. A. TRUE B. FALSE
14. If it is difficult to locate the nest, a(n)can be applied into wall voids through electrical outlets. A. Insecticide dilutions D. Spray the product in a band B. Insecticidal dust E. None of the Above C. Bait treatments
Perimeter Insecticide Treatments 15. The most commonly used method for controlling carpenter ants is treating the perimeter of a home with a A Insecticide dilution Spray product
A. Insecticide dilution D. Spray product B. Dust or spray E. None of the Above C. Bait treatment

Please complete all the topic sections before submitting the answer key.

Topic 2 - 2 Node Ant Identification and Control Section

~!!	it Dait Treatilients		
1.	Which of the following m	issi	ng terms and insecticides can be used to control ants in the
ou	tside nest?		
A.	Insecticide dilutions	D.	Product in a band
В.	Cellose	E.	None of the Above
C.	Bait treatments		

2. Which of the following missing terms can be used outside to successfully drench ant nests? Be sure to follow label recommendations for correct procedures when applying the insecticide.
A. Insecticide dilutions
B. Dust or spray
C. Bait treatments

3.	Most retail products	are	C(ontaining	hydramethylnon,	sulfluramid
aba	amectin, or boric acid.					
A.	Insecticide dilutions	D	. Liquid or granular for	mulations		
B.	Dust or spray	Е	. None of the Above			
\sim	Bait treatments					

C. Bait treatments

Ant Dait Treatments

Outdoors

4. Often carpenter ant nests found indoors are satellite nests that can be traced back to a parent colony outdoors in trees, stumps, roots, fence posts, landscape timbers, and other wood structures.

A. TRUE B. FALSE

- 5. When possible, remove wood that contains carpenter ant nests, or destroy the colony. When this is not practical, and carpenter ants have been discovered entering your home from outdoor nests, a treatment with a _____ around the building's exterior helps keep them out of your home.
- A. Insecticide dilutions D. Non-residual insecticide E. None of the Above
- C. Bait treatments
- 6. Which of the following missing terms, covering the foundation and under the lower edge of the siding to help keep ants from coming inside?
- A. Insecticide dilutions D. Spray the product in a band
- B. Dust E. None of the Above
- C. Bait treatments

Pesticide Treatments General Applications

- 7. Quick-kill insecticides and baits will only kill the foraging ants, not allowing the foraging ants to take the bait back home to feed the queen, nest workers and brood.
- A. TRUE B. FALSE

8. The key to using baits is excess. Applied properly and using a fresh bait product, a broadcast application will give 50% to 60% control, rarely 70%.

A. TRUE B. FALSE

9. Unless you can treat the nest directly, spraying is an effective solution for small ants, never use a non-repellent insecticides or "undetectable" liquid treatments such as Dominion 2L, Termidor or Phantom. Phantom liquid of aerosol is labeled for the inside.

A. TRUE B. FALSE

10. To prevent further carpenter ant infestations, trim all trees and bushes so branches do not touch the house and correct moisture problems such as leaky roofs and plumbing. Paint and/or seal exposed wood construction before it becomes wet.

A. TRUE B. FALSE

Signs and Symptoms of Pesticide Poisoning

11. Anyone who may become exposed to pesticides should be aware of the signs and symptoms of pesticide poisoning.

A. TRUE B. FALSE

12. Prompt action during pesticide overexposure will not prevent serious consequences. Poisoning signs cannot be seen by others, for example, vomiting, sweating, or pin-point pupils.

A. TRUE B. FALSE

Severe Symptoms

13. Recognize the signs and symptoms of pesticide poisoning for those pesticides you commonly use or to which you may be exposed. If you suspect a pesticide poisoning, get immediate help from a local hospital, physician, or the nearest poison control center.

A. TRUE B. FALSE

14. Some of these poisoning symptoms may feel like a cold, flu, or heat exhaustion. Some people may have an allergic reaction to plants, fertilizers, or other chemicals used in agriculture. It is best to see a doctor if any of these symptoms are present.

A. TRUE B. FALSE

15. In a pesticide emergency, identify the pesticide to which the victim was exposed. Provide this information to medical authorities.

Topic 3 – Termite Section

15 Final Questions

1. prot A. B.	Below Ground Termite Colonies 1. The colony may be up to 18-20 feet deep in the ground. The protection against and provides a moisture reservoir A. Treatments D. Extreme temperatures B. Ants E. None of the Above C. Enemies	•
thro A. B.	2. Termites reach wood or this missing term above ground by consthrough earthen (mud) tubes? A. Nest D. Wood of a structure B. Cellulose materials E. None of the Above C. Mud	ructing and traveling
3. V gall acro A. B.	Above Ground Termite Colonies 3. Which of the following do not need a connection to soil and there is regalleries? They do not build mud tunnels; they construct large, irregularcross and with the wood grain, with a very smooth, clean, and sandpage A. Drywood termites D. Western subterranean termite(s) D. Western subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)	llar galleries that run per-like appearance.
_	Norkers 4. The first broods of newly hatched nymphs (young termites) ge	enerally develop into
В. Т	A. Soldier(s) D. Nymph(s) B. Worker(s) E. None of the Above C. Alate	
they A. B.	5. Full-grown workers are soft-bodied, wingless, blind, and creamy whey are fed predigested food by the? A. Soldier(s) D. King and queen B. Worker(s) E. None of the Above C. Alate	hite. In early stages,

- 6. Which of the following matures within a year and live from 3 to 5 years?
- A. Soldier(s) D. Nymph(s)
- B. Worker(s) E. None of the Above
- C. Alate
- 7. Which of the following must be fed by workers as they are incapable of feeding themselves?
- A. Soldier(s) D. Nymph(s)
- B. Worker(s) E. None of the Above
- C. Alate

 8. Which of the following are less numerous than workers and their sole function is to defend the colony against invaders such as ants? A. Soldier(s) D. Nymph(s) B. Worker(s) E. None of the Above C. Alate
Termite Identification Section 9. Which of the following termites are responsible for guarding the colony and its occupants? Termites continually groom each other to obtain certain secretions. These secretions help regulate the number of individuals in the various castes. A. Soldier(s) D. Nymph(s) B. Worker(s) E. None of the Above C. Reproductive(s)
10. Which of the following travel in these mud shelter tubes as protection from predators, sunburn, dehydration and to maintain a high humidity environment which is essential for their survival?
A. Formosan termite(s) B. Desert subterranean termite(s) C. Drywood termite(s) D. Western subterranean termite(s) or Subterranean E. None of the Above
11. Which of the following do not need a connection to soil and there is no soil in their feeding galleries? They do not build mud tunnels; they construct large, irregular galleries that run across and with the wood grain, with a very smooth, clean, and sandpaper-like appearance.
A. Formosan termite(s) B. Desert subterranean termite(s) C. Drywood termite(s) D. Western subterranean termite(s) or Subterranean E. None of the Above
12. Which of the following are highly secretive, preferring to enter a building through areas inaccessible to inspection, such as, through in-fill patios, fire heaths, expansion joints and cracks in concrete slab (on-ground) flooring?
A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)
13. Which of the following can pass through a 1/8" crack or an expansion joint (eating through the rubber compound) between adjoining concrete on ground flooring. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)
 14. Which of the following can also travel under timber parquetry and other floor tiles to get to the wall framing timbers in a building? A. Formosan termite(s) B. Desert subterranean termite(s) C. Pacific Dampwood termite(s)

15. Which of the following have acute survival instincts? If they are shaken up or disturbed the termites often will abandon the associated area and move on to secretly cause damage in other areas in the building.
A. Formosan termite(s) B. Desert subterranean termite(s) C. Drywood termite(s) D. Western subterranean termite(s) or Subterranean E. None of the Above
Topic 4 – Ant and Termite Management
 Which of the following is registered as a termiticide under the tradename Phantom®. Termidor® D. Chlorfenapyr Fipronil E. None of the Above Permethrin
2 Which of the following acts on the mitochondria of cells and uncouples or inhibits oxidative phosphorylation, preventing the formation of the crucial energy molecule adenosine triphosphate (ATP)? As a result, energy production in the cells shuts down, resulting in cellular and, ultimately, termite death. A. Termidor® D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin
3. Fipronil is the only insecticide in this new class, introduced in 1990 and registered in the U.S. in 1996. It is marketed as a termiticide under the tradename This termiticide is a non-repellent material with contact and stomach activity. A. Termidor® D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin
 4. Which of the following works by blocking the gamma-aminobutyric acid (GABA) regulated chloride channel in neurons, thus disrupting the activity of the insect's central nervous system. A. Boron D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin
Termite Product Applications 5. Basement: For a(n), drill the floor slab and space holes about one foot apart. A. Insecticide barrier
6. Drilling may be required along the foundation walls, along one side of partition walls along both sides of, around sewer pipes, floor drains, conduits, and any crack in the basement floor. A. Insecticide barrier D. Interior vertical barrier B. Load-bearing wall E. None of the Above C. Crawl space area

For an insecticide barrier around th	the insecticide at the rate of 4 gallons per 10 linear feet. e, apply an insecticide by rodding and/or
trenching.	D. Interior ventical beautier
A. Exterior of foundation wallsB. Continuous chemical barrier	
C. Crawl space area	E. None of the Above
	1 to 1 1/2 feet apart to provide a ot be wider than 6 inches. Inject insecticide using rodding
	er 10 linear feet. Cover the trench with untreated soil.
A. Insecticide barrier	D. Interior vertical barrier
A. Insecticide barrier B. Continuous chemical barrier	E. None of the Above
C. Crawl space area	
Crawl Spaces	by rodding and/or trenching procedures. A shallow
trench should not be wider than 6 in	by rodding and/or trenching procedures. A shallow iches. Space rod holes about 1 to 1 1/2 feet apart.
A. Insecticide barrier(s)	
B. Continuous chemical barrier(s)	E. None of the Above
C. Crawl space area(s)	
	4 gallons per 10 linear feet per foot of depth. Do not treat
soil in v	vith a broadcast insecticide spray.
A. Insecticide barrier	
B. Continuous chemical barrierC. Crawl space area	E. None of the Above
Hollow Masonry Units of the Four	ndation Walls
	to provide a at the top of the
footing.	
A. Insecticide barrier	D. Spray barrier
B. Continuous chemical barrierC. Treatment	E. None of the Above
12. When	is necessary, access holes must be drilled through
	s close as possible to the footing. Apply insecticide at the
A. Insecticide barrier	Plug all holes with mortar or any other special compound. D. Interior vertical barrier
B. Continuous chemical barrier	
C. Treatment	L. None of the Above
13. State regulations require pes	t control operators to remove termite tubes as part of a
A. Termite infestation	D. Complete termite treatment
B. Continuous chemical barrier	E. None of the Above
C. Lifetime protection	
	a way to determine if a remains active
after treatment or if the termites real	
A. Termite infestation B. Continuous chemical barrier	D. Complete termite treatmentE. None of the Above
C. Lifetime protection	L. Notic of the Above

15. Control products containing inorganic borate can be applied to lumber at the time of construction, or later if exposed, to provide lifetime protection from as long as the wood remains dry. A. Infestation D. Complete termite treatment B. Chemical barrier E. None of the Above C. Contamination **Topic 5- Advanced Ant and Termite Management Section** Identify the pesticide trade name with the common name. 1. Dragnet FT A. Cypermethrin D. Permethrin B. Bendiocarb E. None of the Above C. Chlorpyrifos 2. Prevail FT A. Cypermethrin D. Permethrin B. Bendiocarb E. None of the Above C. Chlorpyrifos 3. Pyrfon 6 A. Cypermethrin D. Isofenphos B. Bendiocarb E. None of the Above C. Chlorpyrifos 4. Torpedo A. Cypermethrin D. Permethrin B. Bendiocarb E. None of the Above C. Chlorpyrifos Fumigation Application 5. Application methods differ depending upon (i) the fumigant formulation being used, (ii) site/area being treated and (iii) the weather. A. TRUE B. FALSE **Adjacent Enclosed Area** 6. If people or domestic animals may enter into this area during the fumigation or aeration process, you are required to conduct monitoring to be sure no one is exposed above the permitted level of 30 ppm on an 8-hour time weighted average. B. FALSE A. TRUE **Fumigation Management Plan** 7. A Fumigation Management Plan (FMP) is a written description of the steps designed to plan for a safe, legal and effective fumigation.

- 8. Before proceeding with a fumigation, the client and/or certified applicator does not need to consult with the State lead pesticide regulatory agency to determine regulatory status, requirements, and restrictions for use of fumigants in that state.
- A. TRUE B. FALSE

9. Most fumigation activities are carried out by a certified applicator or by a handyman under the direct supervision of a certified applicator.

A. TRUE B. FALSE

Monitoring for Safety

10. Monitoring for safety is always suggested unless it can be confirmed/concluded by the certified applicator that there is slight possibility of exposure to phosphine at or above the allowable limits to workers or bystanders.

A. TRUE B. FALSE

Whole-Structure Treatment or Fumigation

11. Sulfuryl fluoride treats all infestations simultaneously and has low levels of efficacy, if correctly applied.

A. TRUE B. FALSE

12. Sulfuryl fluoride kills drywood termites within several months. A monitored fumigation, which involves installing gas monitoring lines inside the structure undergoing treatment, has the lowest rate of treatment success.

A. TRUE B. FALSE

Heat

13. Heat is a nonchemical option for whole-structure treatment. The treatment process involves heating all wood in the structure to a minimum of 220°F and holding this temperature for at least 33 minutes.

A. TRUE B. FALSE

Localized Treatments

14. There are many localized treatment methods available that include both chemical and nonchemical options. For liquid and dust insecticides to be effective, termites must make contact with them or ingest them.

A. TRUE B. FALSE

Liquid Application with Repellent

15. The benefit of using a repellent product instead of a bait product is that repellents can be used both inside and outside the home. If a termite gets past the barriers to entry (the liquid repellent), the termite will encounter the repellent that makes the environment inhospitable.

Ant Control CEU Training Awareness Assignment #4 Last Names T-Z

You will have 90 days from the start of this course to have successfully passed this assignment with a score of 70 %. You may e mail the answers to TLC, info@tlch2o.com or fax the answers to TLC, (928) 272-0747. This assignment is available to you in a Word Format on TLC's Website. Once you have paid the course fee, you will be provided complete course support from Student Services (928) 468-0665.

Write your answers on the Answer Key found in the front of this assignment.

Topic 1 - 1 Node Ant Identification and Control Section

	isms in the balance of nature. In nature, ants greatly reduce the greatly reduced the greatl
ono	asy to control and different strategies should be used depending f the ants. st location and food preferences ne of the Above
Head 3. An ant's head contains eyes made from numerous ti A. Egg-laying structures B. Mesosoma ("thorax") C. Two antennae ("feelers")	iny lenses attached together. D. Many sensory organs E. None of the Above
	•
6. Only reproductive ants, quality A. Stingers B. Extra set of legs C. Communication	ueens, and males, have D. Wings E. None of the Above

7. Workers of many species have their egg-laying structures modified into that are used for subduing prey and defending their nests. A. Egg-laying structures D. Wings B. Excretory systems E. None of the Above C. Stinger(s)
IPM Control Program 8. An Integrated Pest Management (IPM) approach offers a slight chance for control of ants. An IPM approach suggests but a few of control methods into a pest management program. IPM methods include chemical strategies. A. TRUE B. FALSE
Carpenter Ants - 1 Node ant - Wood Destroyer 9. Carpenter ants tunnel into wood to form nest galleries. If they go unnoticed for several years, they may cause structural damage. Outdoors, the ants use dead trees or tree limbs, stumps, logs or areas under stones as nesting sites. A. TRUE B. FALSE
10. Treatment options include use of aapplied as a dust or spray to the nest. A. Insecticide dilutions B. Dust or spray C. Bait treatments D. Bait or residual contact insecticide E. None of the Above
11. Read and follow the product label for best results. It may be necessary to drill small holes in the wall voids, baseboards, and window and doorsills to reach the nest or major part of the colony. Nests can also be removed and infested wood replaced, if feasible. A. TRUE B. FALSE
12. Carpenter ants are least active in the evening hours, foraging for all kinds of food, outside. By following the ants, you will never be able to tell where the nest is. A. TRUE B. FALSE
13. Because carpenter ants keep thevery clean and push the sawdust and dead insect parts out small holes in the wood, a small, fresh pile of sawdust under the nest timber is the usual sign of an active carpenter ant nest. A. Active nests
14. If it is difficult to locate the nest, a(n)can be applied into wall voids through electrical outlets. A. Insecticide dilutions D. Spray the product in a band B. Insecticidal dust E. None of the Above C. Bait treatments
Perimeter Insecticide Treatments 15. The most commonly used method for controlling carpenter ants is treating the perimeter of a home with a A. Insecticide dilution D. Spray product B. Dust or spray E. None of the Above C. Bait treatment

Please complete all the sections before submitting the answer key.

Topic 2 - 2 Node Ant Identification and Control Section

Ant Bait Treatn	าents
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Which of the following moutside nest?	ssing terms and insecticides can be used to control ants in the
A. Insecticide dilutions B. Cellose C. Bait treatments	D. Product in a band E. None of the Above
nests? Be sure to follow lab insecticide.	nissing terms can be used outside to successfully drench and el recommendations for correct procedures when applying the D. Spray the product in a band E. None of the Above
abamectin, or boric acid.	D. Liquid or granular formulations E. None of the Above
•	s found indoors are satellite nests that can be traced back to a ees, stumps, roots, fence posts, landscape timbers, and other
When this is not practical, a	D. Non-residual insecticide
of the siding to help keep ant	ssing terms, covering the foundation and under the lower edge s from coming inside? D. Spray the product in a band E. None of the Above
Pesticide Treatments Gene	ral Applications

- 7. Chemical Control. Ants can be controlled with baits, crack and crevice treatments, indoor space and surface treatments, outdoor barrier and broadcast treatments, as well as void and attic treatments.
- A. TRUE B. FALSE

- 8. Since ants do not rely on trophallaxis (reciprocal feeding), the bait toxicant cannot be thoroughly distributed to the members of the colony, including the queen and brood.
- A. TRUE B. FALSE
- 9. Quick-kill insecticides and baits will only kill the foraging ants, not allowing the foraging ants to take the bait back home to feed the queen, nest workers and brood.

A. TRUE B. FALSE

Key

10. The key to using baits is excess. Applied properly and using a fresh bait product, a broadcast application will give 50% to 60% control, rarely 70%.

A. TRUE B. FALSE

Nest Treatments

11. Unless you can treat the nest directly, spraying is an effective solution for small ants, never use a non-repellent insecticides or "undetectable" liquid treatments such as Dominion 2L, Termidor or Phantom. Phantom liquid of aerosol is labeled for the inside.

A. TRUE B. FALSE

Carpenter Ant Infestations

12. To prevent further carpenter ant infestations, trim all trees and bushes so branches do not touch the house and correct moisture problems such as leaky roofs and plumbing. Paint and/or seal exposed wood construction before it becomes wet.

A. TRUE B. FALSE

Signs and Symptoms of Pesticide Poisoning Recognizing Signs and Symptoms of Poisoning

13. Anyone who may become exposed to pesticides should be aware of the signs and symptoms of pesticide poisoning.

A. TRUE B. FALSE

14. Prompt action during pesticide overexposure will not prevent serious consequences. Poisoning signs cannot be seen by others, for example, vomiting, sweating, or pin-point pupils.

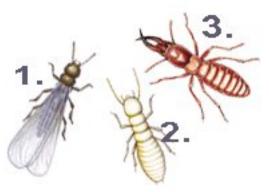
A. TRUE B. FALSE

15. In a pesticide emergency, identify the pesticide to which the victim was exposed. Provide this information to medical authorities.

Topic 3 – Termite Section

15 Final Questions

1. A. B. C. D.	entify the following pictures. This is? Soldier Worker Swarmer Queen None of the Above
A. B. C. D.	This is? Soldier Worker Swarmer Queen None of the Above
A. B. C. D.	This is? Soldier Worker Swarmer Queen None of the Above
A. B. C. D.	This is? Soldier Worker Swarmer Queen None of the Above



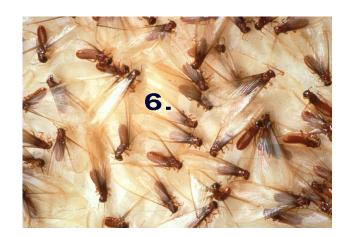


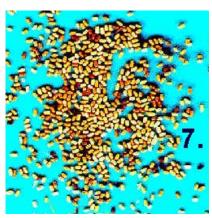


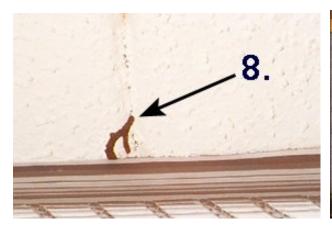
5. These are _____? A. Soldiers

- B. Workers
- C. Swarmers
- D. Queens
- E. None of the Above
- 6. These are?
- A. Mud Holes
- B. Frass
- C. Alates
- D. Fungus
- E. None of the Above
- 7. These are?
- A. Mud Holes
- B. Frass
- C. Alates
- D. Fungus
- E. None of the Above

- 8. This is?
- A. Mud Tubes
- B. Frass
- C. Alates
- D. Fungus
- E. None of the
- Above
- 9. This is?
- A. Mud Tubes
- B. Frass
- C. Alates
- D. Fungus
- E. None of the Above









Feeding Habits

- 10. Termites feed mainly on wood and wood products containing
- A. Moisture
- D. Wood
- B. Cellulose(s)
- E. None of the Above
- C. Mud

Below Ground Termite Colonies

- 11. The colony may be up to 18-20 feet deep in the ground. The ground serves as a protection against _____ and provides a moisture reservoir.
- A. Treatments
- D. Extreme temperatures
 E. None of the Above
- B. AntsC. Enemies
- 12. Termites reach wood or this missing term above ground by constructing and traveling through earthen (mud) tubes?
- A. Nest

- D. Wood of a structure
- B. Cellulose materials
- E. None of the Above

C. Mud

13. Which of the following do not need a connection to soil and there is no soil in their feeding galleries? They do not build mud tunnels; they construct large, irregular galleries that run across and with the wood grain, with a very smooth, clean, and sandpaper-like appearance. A. Desert subterranean termite(s) B. Drywood termites C. Pacific Dampwood termite(s)
Workers 14. The first broods of newly hatched nymphs (young termites) generally develop into
A. Soldier(s) B. Worker(s) C. Alate D. Nymph(s) E. None of the Above
Termite Identification Section 15. Which of the following are almost an inch long that is quite a bit larger than the Subterranean or the Drywood variety. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Dampwood termite(s)
Topic 4 – Ant and Termite Management
The pyrethroids are a large family of modern synthetic insecticides similar to the naturally derived Botanical pyrethrins D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin
 2. At low levels, however, is only minimally toxic, and perhaps beneficial, to humans, other mammals, and growing plants. A. Termidor® D. Boron B. Fipronil E. None of the Above C. Permethrin
3. Use oftreated wood for construction of homes and their wood-based contents appears to offer many advantages to today's environmentally sensitive world. A. Termidor® D. Borate B. Fipronil E. None of the Above C. Permethrin
4. Which of the following is the only termiticide from the pyrrole family of chemistry and is active primarily as a stomach poison with some contact activity. It is also non-repellent to termites?
A. Termidor® D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin

U.S. in 1996. It is marketed as a ter	this new class, introduced in 1990 and registered in the miticide under the tradename This all with contact and stomach activity. pyr ne Above
	the foundation walls, along one side of partition walls,, around sewer pipes, floor drains, conduits, and any terior vertical barrier one of the Above
If a trench is necessary, it should not technique at the rate of 4 gallons pe	1 to 1 1/2 feet apart to provide a ot be wider than 6 inches. Inject insecticide using rodding er 10 linear feet. Cover the trench with untreated soil. D. Interior vertical barrier E. None of the Above
Crawl Spaces 9. Establish trench should not be wider than 6 in A. Insecticide barrier(s) B. Continuous chemical barrier(s) C. Crawl space area(s)	by rodding and/or trenching procedures. A shallow nches. Space rod holes about 1 to 1 1/2 feet apart. D. Vertical barrier(s) E. None of the Above
	4 gallons per 10 linear feet per foot of depth. Do not treat with a broadcast insecticide spray. D. Interior vertical barrier E. None of the Above
footing.	to provide a at the top of the
A. Insecticide barrierB. Continuous chemical barrierC. Treatment	D. Spray barrier E. None of the Above

12. When	is necessary, access holes must be drilled through
rate of 2 gallons per 1 A. Insecticide barrier	
C. Treatment	cal barrier E. None of the Above
Mud Tube Removal 13. State regulation	s require pest control operators to remove termite tubes as part of a
A. Termite infestation B. Continuous chemic C. Lifetime protection	
after treatment or if th A. Termite infestation	cal barrier E. None of the Above
construction, or later long as the wood rem A. Infestation	s containing inorganic borate can be applied to lumber at the time of if exposed, to provide lifetime protection from as ains dry. D. Complete termite treatment E. None of the Above
Topic 5- Advance	ed Ant and Termite Management Section
Identify the pesticid	e trade name with the common name.
A. Cypermethrin B. Bendiocarb C. Chlorpyrifos	D. Permethrin E. None of the Above
2. Demon TCA. CypermethrinB. BendiocarbC. Chlorpyrifos	D. Permethrin E. None of the Above
3. FicamA. CypermethrinB. BendiocarbC. Chlorpyrifos	D. Permethrin E. None of the Above
4. Dursban TCA. CypermethrinB. BendiocarbC. Chlorpyrifos	D. Permethrin E. None of the Above

- 5. Dragnet FT
- A. Cypermethrin D. Permethrin
- B. Bendiocarb E. None of the Above
- C. Chlorpyrifos

Fumigation Application

6. Application methods differ depending upon (i) the fumigant formulation being used, (ii) site/area being treated and (iii) the weather.

A. TRUE B. FALSE

Adjacent Enclosed Area

7. If people or domestic animals may enter into this area during the fumigation or aeration process, you are required to conduct monitoring to be sure no one is exposed above the permitted level of 30 ppm on an 8-hour time weighted average.

A. TRUE B. FALSE

Fumigation Management Plan

8. A Fumigation Management Plan (FMP) is a written description of the steps designed to plan for a safe, legal and effective fumigation.

A. TRUE B. FALSE

Monitoring for Safety

9. Monitoring for safety is always suggested unless it can be confirmed/concluded by the certified applicator that there is slight possibility of exposure to phosphine at or above the allowable limits to workers or bystanders.

A. TRUE B. FALSE

Termite Control Methods Summary

10. All termite control methods can be categorized as either whole structure or localized. A whole-structure treatment is defined as the simultaneous treatment of all infestations, accessible and inaccessible, in a structure.

A. TRUE B. FALSE

11. Localized or spot treatment is more restrictive and is often applied to a single board or small group of boards.

A. TRUE B. FALSE

Heat

12. Heat is a nonchemical option for whole-structure treatment. The treatment process involves heating all wood in the structure to a minimum of 220°F and holding this temperature for at least 33 minutes.

A. TRUE B. FALSE

Localized Treatments

13. There are many localized treatment methods available that include both chemical and nonchemical options. For liquid and dust insecticides to be effective, termites must make contact with them or ingest them.

Liquid Application with Repellent

- 14. This combination of methods involves using liquid pesticide in the same manner described above. However, instead of using bait as an additional form of termite prevention, this method combines the liquid pesticide application with an application of termite repellent.
- A. TRUE B. FALSE
- 15. The benefit of using a repellent product instead of a bait product is that repellents can be used both inside and outside the home. If a termite gets past the barriers to entry (the liquid repellent), the termite will encounter the repellent that makes the environment inhospitable.
- A. TRUE B. FALSE

Ant Control CEU Training Awareness Assignment #5 Repeat Students

You will have 90 days from the start of this course to have successfully passed this assignment with a score of 70 %. You may e mail the answers to TLC, info@tlch2o.com or fax the answers to TLC, (928) 272-0747. This assignment is available to you in a Word Format on TLC's Website. Once you have paid the course fee, you will be provided complete course support from Student Services (928) 468-0665.

Write your answers on the Answer Key found in the front of this assignment.

Topic 1 - 1 Node Ant Identification and Control Section
 Insecticide sprays and baits can be used to kill foraging ants and destroy nests, but strategies designed to prevent further infestations should be used in conjunction with chemical treatment. TRUE B. FALSE
 Ants are beneficial organisms in the balance of nature. In nature, ants greatly reduce the amount of dead and decaying plant and animal organic matter. They also aerate the soil with their nests. TRUE B. FALSE
 3. Ant infestations are not easy to control and different strategies should be used depending on of the ants. A. Active nests D. Nest location and food preferences B. Ant infestations E. None of the Above C. Nest galleries
Ants can be controlled with a combination of good sanitation, removing, caulking entry points, and eliminating active nests. A. Active nests
 5. Which of the following are attached to the head; these organs detect chemicals, air currents, and vibrations; they also are used to transmit and receive signals through touch? A. Eyes D. Wings B. Mesosoma ("thorax") E. None of the Above C. Two antennae ("feelers")
6. Queens shed their wings after the nuptial flight, leaving visible stubs, a distinguishing feature of queens. In a few species,and males occur. A. Soldier(s) D. Wingless queens (ergatoids) B. Worker(s) E. None of the Above C. Alate

7. Both theof the ant are attack legs terminate in a hooked claw which allows them to he A. Reproductive structures D. Arms and wings B. Legs and wings E. None of the Above C. Arms and legs	ned to the mesosoma ("thorax"). The ook on and climb surfaces.
 8. Only reproductive ants, queens, and males, have A. Stingers D. Wings B. Extra set of legs E. None of the Above C. Communication 	·
9. The metasoma (the "abdomen") of the ant contain those of the reproductive, respiratory (tracheae), and A. Egg-laying structures D. Wings B. Excretory systems E. None of the Above C. Stinger(s)	
10. Workers of many species have their e that are used for subduing prey A. Egg-laying structures D. Wings B. Excretory systems E. None of the Above C. Stinger(s)	
11. An Integrated Pest Management (IPM) approach ants. An IPM approach suggests but a few of controprogram. IPM methods include chemical strategies. A. TRUE B. FALSE	
12. Carpenter ants are large (about 3/8" to 1/2" long) usually smaller than most other house- infesting ants. reddish yellow color to a combination of black and durange in size from 5/16 to 7/16 inches long. A. TRUE B. FALSE	They vary in color from a dull black or
13. Carpenter ants tunnel into wood to form nest galleyears, they may cause structural damage. Outdoors, t stumps, logs or areas under stones as nesting sites. A. TRUE B. FALSE	eries. If they go unnoticed for several he ants use dead trees or tree limbs,
14. Read and follow the product label for best result holes in the wall voids, baseboards, and window and do of the colony. Nests can also be removed and infested A. TRUE B. FALSE	oorsills to reach the nest or major part
15. The most commonly used method for controlling cont	arpenter ants is treating the perimeter

Please complete all the topic sections before submitting the answer key.

Topic 2 - 2 Node Ant Identification and Control Section

abamectin, or boric acid. A. Insecticide dilutions	containing hydramethylnon, sulfluramid, D. Liquid or granular formulations E. None of the Above
outside nest? A. Insecticide dilutions	osing terms and insecticides can be used to control ants in the D. Product in a band E. None of the Above
nests? Be sure to follow labe insecticide. A. Insecticide dilutions	issing terms can be used outside to successfully drench ant recommendations for correct procedures when applying the D. Spray the product in a band E. None of the Above
of the siding to help keep ants A. Insecticide dilutions	ssing terms, covering the foundation and under the lower edge from coming inside? D. Spray the product in a band E. None of the Above
•	found indoors are satellite nests that can be traced back to a es, stumps, roots, fence posts, landscape timbers, and other
When this is not practical, a from outdoor nests, a treatment helps keep them out of your ha. Insecticide dilutions	wood that contains carpenter ant nests, or destroy the colony. Indicarpenter ants have been discovered entering your home ent with a around the building's exterior ome. D. Non-residual insecticide E. None of the Above
	baits will only kill the foraging ants, not allowing the foraging are to feed the queen, nest workers and brood.
	n be controlled with baits, crack and crevice treatments, indoor , outdoor barrier and broadcast treatments, as well as void and
	n trophallaxis (reciprocal feeding), the bait toxicant cannot be nembers of the colony, including the queen and brood.

10. The key to using baits is excess. Applied properly and using a fresh bait product, a broadcast application will give 50% to 60% control, rarely 70%.

A. TRUE B. FALSE

11. Unless you can treat the nest directly, spraying is an effective solution for small ants, never use a non-repellent insecticides or "undetectable" liquid treatments such as Dominion 2L, Termidor or Phantom. Phantom liquid of aerosol is labeled for the inside.

A. TRUE B. FALSE

Carpenter Ant Infestations

12. To prevent further carpenter ant infestations, trim all trees and bushes so branches do not touch the house and correct moisture problems such as leaky roofs and plumbing. Paint and/or seal exposed wood construction before it becomes wet.

A. TRUE B. FALSE

Signs and Symptoms of Pesticide Poisoning **Recognizing Signs and Symptoms of Poisoning**

13. Anyone who may become exposed to pesticides should be aware of the signs and symptoms of pesticide poisoning.

A. TRUE B. FALSE

14. Prompt action during pesticide overexposure will not prevent serious consequences. Poisoning signs cannot be seen by others, for example, vomiting, sweating, or pin-point sligua

A. TRUE B. FALSE

15. In a pesticide emergency, identify the pesticide to which the victim was exposed. Provide this information to medical authorities.

A. TRUE B. FALSE

Topic 3 – Termite Section

15 Final Questions

Which of the following emergence is stimulated when temperature and moisture conditions are favorable, usually on warm days following rainfall? Swarming typically occurs during daytime in the spring (March, April, and May), but swarms can occur indoors during other months.

A. Soldier(s) D. Nymph(s)

E. None of the Above B. Worker(s)

C. Alate(s)

2. Which of the following is native to most forest areas where it performs the important task of breaking down the large quantities of dead and fallen trees and other sources of cellulose that continuously accumulate in the forests.

A. Formosan termite(s)

D. Western subterranean termite(s) or Subterranean

B. Desert subterranean termite(s) E. None of the Above

C. Drywood termite(s)

 3. Which of the following termites are ¼ inch (6 mm) long and pale cream in color (worker ants are yellow, red, brown or black)? A. Soldier(s) D. Nymph(s) B. Worker(s) E. None of the Above C. Reproductive(s)
 4. Which of the following will tap their heads against the wood when disturbed which is another means of detecting the presence of termites? A. Soldier(s) D. Nymph(s) B. Worker(s) E. None of the Above C. Reproductive(s)
 5. Which of the following construct the distinctive shelter tubes and collect food to feed the young and other members of the colony? A. Soldier(s) D. Nymph(s) B. Worker(s) E. None of the Above C. Reproductive(s)
 6. Which of the following termites are responsible for guarding the colony and its occupants? Termites continually groom each other to obtain certain secretions. These secretions help regulate the number of individuals in the various castes. A. Soldier(s) D. Nymph(s) B. Worker(s) E. None of the Above C. Reproductive(s)
7. Which of the following are highly secretive, preferring to enter a building through areas inaccessible to inspection, such as, through in-fill patios, fire heaths, expansion joints and cracks in concrete slab (on-ground) flooring? A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)
 8. Which of the following can pass through a 1/8" crack or an expansion joint (eating through the rubber compound) between adjoining concrete on ground flooring. A. Formosan termite(s) B. Desert subterranean termite(s) C. Pacific Dampwood termite(s)
 9. Which of the following can also travel under timber parquetry and other floor tiles to get to the wall framing timbers in a building? A. Formosan termite(s) B. Desert subterranean termite(s) C. Pacific Dampwood termite(s)
10. Which of the following travel in these mud shelter tubes as protection from predators sunburn, dehydration and to maintain a high humidity environment which is essential for their survival?
 A. Formosan termite(s) B. Desert subterranean termite(s) C. Drywood termite(s) D. Western subterranean termite(s) or Subterranean E. None of the Above

11. Which of the following do not need a connection to soil and there is no soil in the feeding galleries? They do not build mud tunnels; they construct large, irregular galleries that run across and with the wood grain, with a very smooth, clean, and sandpaper-lik appearance. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Drywood termite(s)
12. Which of the following have acute survival instincts? If they are shaken up or disturbed the termites often will abandon the associated area and move on to secretly cause damage in other areas in the building. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Drywood termite(s)
13. Which of the following have three primary castes: nymphs, reproductives and soldiers. The reproductive, also known as alates, are often up to ¾-inches long and have dark-brown wings and dark-brown bodies? Nymphs are cream colored and soldiers have brownish colored heads with very large mouthparts that are used to help defend the colony from predators. A. Formosan termite(s) D. Nevada Drywood termite(s) B. Desert subterranean termite(s) E. None of the Above C. Pacific Dampwood termite(s)
14. Which of the following are found in Arizona, New Mexico, Texas, and Souther California. Living where the habitat is dry and arid in these regions of the United States They ingest damp wood that is buried in the ground. Munching termites attack tree roots bushes, doorframes and fence posts. The Dampwood also feeds on live trees – wood that i under ground level. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Desert Dampwood termite(s)
15. Which of the following are almost an inch long that is quite a bit larger than the Subterranean or the Drywood variety. A. Formosan termite(s) D. Western subterranean termite(s) or Subterranean B. Desert subterranean termite(s) E. None of the Above C. Dampwood termite(s)
Topic 4 – Ant and Termite Management 1. Use oftreated wood for construction of homes and their wood based contents appears to offer many advantages to today's environmentally sensitive world. A. Termidor® D. Borate B. Fipronil E. None of the Above C. Permethrin
 2. Which of the following is the only termiticide from the pyrrole family of chemistry and is active primarily as a stomach poison with some contact activity. It is also non-repellent to termites? A. Termidor® D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin

 3. Which of the following is registered as a termiticide under the tradename Phantom®. A. Termidor® D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin 	
4. The pyrethroids are a large family of modern synthetic insecticides similar to the natural derived A. Botanical pyrethrins D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin	lly
 5. Which of the following is a broad-spectrum pyrethroid insecticide. It is available in dus emulsifiable concentrates, smokes, ULV concentrates, and wettable-powder formulations? A. Termidor® D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin 	ts,
6. Though the mechanisms of toxicity are not fully understood,is vertoxic to insects and decay fungi that commonly damage wood in structures. A. Boron D. Chlorfenapyr B. Fipronil E. None of the Above C. Permethrin	ry
7. Drilling may be required along the foundation walls, along one side of partition wall along both sides of, around sewer pipes, floor drains, conduits, and a crack in the basement floor. A. Insecticide barrier D. Interior vertical barrier B. Load-bearing wall E. None of the Above C. Crawl space area	
 8. Using a sub-slab injector, inject the insecticide at the rate of 4 gallons per 10 linear fer For an insecticide barrier around the, apply an insecticide by rodding and trenching. A. Exterior of foundation walls D. Interior vertical barrier B. Continuous chemical barrier E. None of the Above C. Crawl space area 	
9. The rod holes should be spaced 1 to 1 1/2 feet apart to provide a	 ng
10. Establish by rodding and/or trenching procedures. A shallour trench should not be wider than 6 inches. Space rod holes about 1 to 1 1/2 feet apart. A. Insecticide barrier(s) D. Vertical barrier(s) B. Continuous chemical barrier(s) E. None of the Above C. Crawl space area(s)	W

soil in	ith a broadcast insecticide spray	depth. Do not treat		
soil in w A. Insecticide barrier	D. Interior vertical barrier			
B. Continuous chemical barrier				
C. Crawl space area				
12. Treat through masonry voids	to provide a	at the top of the		
footing.		'		
A. Insecticide barrier	D. Spray barrier			
B. Continuous chemical barrier	E. None of the Above			
C. Treatment				
13. When	is necessary, access holes must	be drilled through		
	close as possible to the footing. Apply			
•	lug all holes with mortar or any other s	pecial compound.		
A. Insecticide barrier	D. Interior vertical barrier			
B. Continuous chemical barrier C. Treatment	E. None of the Above			
C. Treatment				
14. State regulations require pest	control operators to remove termite	tubes as part of a		
A. Termite infestation	D. Complete termite treatment			
B. Continuous chemical barrier	E. None of the Above			
C. Lifetime protection				
15. Pomoving the tubes provides a	way to determine if a	romaine activo		
after treatment or if the termites reap		remains active		
A. Termite infestation	D. Complete termite treatment			
B. Continuous chemical barrier	•			
C. Lifetime protection				
Topic 5- Advanced Ant and	d Termite Management Secti	on		
4 Mark & mainsting activities and according	wind not be a new ifinal new line to a new level	_		
the direct supervision of a certified a	ried out by a certified applicator or by a	a nandyman under		
A. TRUE B. FALSE	pplicator:			
	fumigation of an individual facility if o			
	is temperature and humidity recordin			
_	nitoring records, must be maintained t	for a minimum of 2		
months. A. TRUE B. FALSE				
A. INOL B. IALOL				
3. Before proceeding with a fumigat	ion, the client and/or certified applicato	or does not need to		
	ide regulatory agency to determine	regulatory status,		
requirements, and restrictions for use	e of fumigants in that state.			
A. TRUE B. FALSE				
4. Monitoring for safety is always	suggested unless it can be confirmed	I/concluded by the		
4. Monitoring for safety is always suggested unless it can be confirmed/concluded by the certified applicator that there is slight possibility of exposure to phosphine at or above the				
allowable limits to workers or bystan	• • • • • • • • • • • • • • • • • • • •			
A. TRUE B. FALSE				

5. Monitoring may be done if there is even the slightest possibility of non-exposure. Exposures to phosphine must can exceed the 8-hour Time Weighted Average of 0.3 ppm or the 15-minute Short-Term Exposure Limit (STEL) of 1.0 ppm.

A. TRUE B. FALSE

6. Whole-structure treatments have an advantage over localized treatments in that they should eliminate all infestations, even hidden ones. With the uncertainty of current detection methods, particularly when drywall or other wall coverings conceal infestations, there is always some doubt as to the extent of drywood termite colony boundaries and the number of colonies within homes.

A. TRUE B. FALSE

7. All termite control methods can be categorized as either whole structure or localized. A whole-structure treatment is defined as the simultaneous treatment of all infestations, accessible and inaccessible, in a structure.

A. TRUE B. FALSE

8. Localized or spot treatment is more restrictive and is often applied to a single board or small group of boards.

A. TRUE B. FALSE

9. Sulfuryl fluoride treats all infestations simultaneously and has low levels of efficacy, if correctly applied.

A TRUE B FALSE

10. Sulfuryl fluoride kills drywood termites within several months. A monitored fumigation, which involves installing gas monitoring lines inside the structure undergoing treatment, has the lowest rate of treatment success.

A. TRUE B. FALSE

11. Non-monitored fumigation may not have enough gas concentration to kill infestations, and failures may occur.

A. TRUE B. FALSE

12. Heat is a nonchemical option for whole-structure treatment. The treatment process involves heating all wood in the structure to a minimum of 220°F and holding this temperature for at least 33 minutes.

A. TRUE B. FALSE

13. There are many localized treatment methods available that include both chemical and nonchemical options. For liquid and dust insecticides to be effective, termites must make contact with them or ingest them.

A. TRUE B. FALSE

14. This combination of methods involves using liquid pesticide in the same manner described above. However, instead of using bait as an additional form of termite prevention, this method combines the liquid pesticide application with an application of termite repellent.

15. The benefit of using a repellent product instead of a bait product is that repellents can be used both inside and outside the home. If a termite gets past the barriers to entry (the liquid repellent), the termite will encounter the repellent that makes the environment inhospitable.

A. TRUE

B. FALSE

When finished with your assignment.

Please scan the Registration Page, Answer Key and Driver's License and email it to info@TLCH2O.com.

If you are unable to scan, take a photo of these documents with your iPhone and send these to TLC, <u>info@TLCH2O.com</u>.

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(928) 468-0675
If you fax, call to confirm that we received your paperwork.