

Pesticide Applicator Licensee & Certification School
CTN Educational Services, Inc.
Las Vegas, NV

The Orleans Hotel and Casino
 4500 W Tropicana Ave.
 Las Vegas, NV 89103
 702-365-7111

December 20 & 21, 2010

Restricted Use Certification:

Certification School Registration (2 days) is \$100.00 and covers coffee breaks, arrangements and general expenses. To register go to www.ctnedu.com or call 1-512-829-5114 for questions and general information.

Certification Information: Full Attendance (2 days) will earn an attendee twelve (12) Continuing Education Units (CEUs), five (5) laws and seven (7) general, enough to re-certify by CEUs in 2010. For Nevada Certification, an exam administered by the Nevada Department of Agriculture (NDOA) will be given the afternoon of December 21, 2010. **A fee of \$25.00 will be collected by the NDOA between 7:30 am and 8:15 on December 21, 2010.** The NDOA can only accept CASH or CHECK (make check payable to the NDOA). A Nevada Pesticide Applicator Training Guide may be downloaded at http://agri.nv.gov/PLANT_Envir_PesticideCertHandbook.htm or purchased from the Nevada Cooperative Extension. For Certification questions please contact the NDOA at 702-668-4570.

Licensee Workshop:

Licensee School Registration (1 day) is \$75.00 and covers coffee breaks, arrangements and general expenses. To register go to www.ctnedu.com or call 1-512-829-5114 for questions and general information.

Licensee Information: Attendance to the first 6 educational hours on December 20, 2010 earns six Continuing Education Units (CEUs), two (2) laws and four (4) general. Licensee CEUs for Nevada applicators will not be given on December 21, 2010.

December 20, 2010, Certification School & Licensee Workshop

7:00 a.m. Registration at the Door

TIME	SUBJECT	PRESENTER
8:00 am – 9:00 am	Pesticide Laws & Regulations / Recordkeeping	Scott Cichowlaz, NDOA
9:00 am – 10:15 am	Insect Pests & Quarantines	Jeff Knight, NDOA
10:15 am – 10:30 am	Break	
10:30 am – 11:15 am	Vertebrate Pest Management	Jon Carpenter, NDOA
11:15 am – 12:00 noon	Aquatic Pests & Control	Jon Carpenter, NDOA
Noon – 1:00 pm	Lunch (on your own)	
1:00 pm – 1:45 pm	Storage & Disposal - Label Changes	Tommy Kezar, CTN
1:45 pm – 2:45 pm	Clean Water Act (Notice of Intent / Permits) & FIFRA	Charles Moses, NDOA
2:45 pm – 3:00 pm	Break – Nevada Licensee Checkout	Scott Cichowlaz, NDOA
3:00 pm – 4:00 pm	Integrated Pest Management (IPM) / Environmental Protection	M.L. Robinson, UNCE
4:00 pm – 5:00 pm	PPE & Kelly Solutions web page review	Tommy Kezar, CTN

December 21, 2010, Certification School Continued & Exam

TIME	SUBJECT	PRESENTER
7:30 am – 8:15 am	Certification Exam Registration at the Door (\$25.00)	
8:30 am – 10:15 am	Nevada Certification Program, Pesticide Equipment Calibration, Safety Tips & Transportation	Charles Moses, NDOA
10:15 am – 10:30 am	Break	
10:30 am – 12:30 am	Category Exam Reviews (O&T / R of Way / I & I)	Tommy Kezar, CTN

2:00 p.m. to 4:00 p.m.: Examinations (no more than 4 category exams)

Detailed Topics

DAY 1 (12/20/2010)

Pesticide Laws & Regulations / Record Keeping (1.0 CEU Law) Presenter: Scott Cichowlaz

Pesticide laws and regulations will be discussed in relation Restricted-Use Pesticides (RUPs) / federal laws (FIFRA) and regulations governing pesticide applicators and the application of pesticides in Nevada. Common violations, regulatory processes, investigation of complaints for the misapplication of a pesticide, and RUP certification and Nevada licensing will be discussed. The laws regarding record keeping for those who apply RUPs will be explained. Likewise, the reporting form required by the Nevada Department of Agriculture will be given to all of the participants. Sections of the reporting form will be discussed along with the proper way to fill out in each of the sections. Examples of recent occurrences will be given along with their resolution and the penalties that were imposed.

Insect Pests & Quarantines (1.25 CEU General) Presenter: Jeff Knight

Principles of entomology and insect identification will be shared with pesticide applicators. Insect morphology and development along with selected lifecycles will be discussed. Common insect pests, as well as, insects under federal and state quarantines, will be shown and their most important identifying characteristics pointed out. The importance of ID and submission for ID will be discussed and straightforward control measures will be discussed for each common pest.

Vertebrate Pests (.75 CEU General) Presenter: Jon Carpenter

This section will focus on vertebrate pest identification and management in ornamental, agricultural and institutional areas. A focused discussion on the proper use of phosphine gas for underground burrowing rodents near structures will take place. The use and proper control and safety considerations will be stressed for other pesticides discussed.

Aquatic Pests and Control (.75 CEU General) Presenter: Jon Carpenter

Discussion about common aquatic weeds including algae and vascular plants. This discussion will include Integrated Pest Management (IPM) strategies such as prevention, mechanical, biological, and chemical control methods. The presentation will focus on weeds in or near ornamental ponds. Time permitting a discussion on how to manage nuisance fish and other vertebrates in and around aquatic environments will be discussed.

Storage & Disposal - Label Changes (.75 CEU General) Presenter: Tommy Kezar

Proper storage of pesticides and how to dispose of spilled and/or unwanted pesticides will be covered. Also, Nevada's pesticide disposal program and pesticide collection days will be presented during this session. Emergency response to spills and accidents with regard to pesticides will be emphasized. The proper containment and disposal of spilled pesticide pesticides will be explained.

Clean Water Act (CWA) & FIFRA (1.0 CEU Law) Presenter: Charles Moses

A discussion on aquatic pesticides and the Clean Water Act, how the changes to the Clean Water Act will affect pesticide applicators, and the permitting process with DEP

Integrated Pest Management (IPM)/Env. Protection (1.0 CEU Law) Presenter: M.L. Robinson

Advanced integrated pest management techniques used in scouting landscapes will be shared. The tools necessary to perform good scouting as part of a commercial pesticide program will be demonstrated. How good integrated pest management reduces environmental risk will be discussed. Liability issues regarding pest control and integrated pest management will also receive attention.

PPE & Kelly Solutions web page review (1 General) Presenter: Tommy Kezar

Safety considerations regarding the operator, applicator and the environment will be discussed, including PPE. A hands on demonstration of each type of PPE will be displayed and discussed in detail. Respirator safety and OSHAs requirements will be discussed

CEU Breakdown Day 1:

3.0 Law

5.0 General

8.0 Total

Detailed Topics

DAY 2 (12/21/2010)

Nevada Certification Program, Pesticide Equipment Calibration, Safety Tips & Transportation

(2.0 CEU's (1.0 General / 1.0 Law) Presenter: Charles Moses

The basics of Nevada's certification program (differences between certification and licensing), the laws and regulations regarding transport of pesticides will be presented. The federal Worker Protection Standards will be discussed, including worker training and enforcement issues. The calibration of spray equipment will be taught (boom and spray wands). Management considerations in applying pesticides to prevent groundwater and surface water contamination will be discussed. A summary of the food quality protection act will be presented along with current amendments and developments for pesticide applicators. Discussion regarding the registration and re-registration of pesticides and the concept of filling a risk cup will be made. Discussion along with questions and answers will be available. Safety considerations regarding the operator, applicator and the environment will be discussed, including PPE.

Ornamental and Turf Pest Control Review (.75 CEU General) Presenter: Tommy Kezar

Principles of weed management regarding invasive and ornamental weed species including annual, biennial and perennial weeds will be highlighted. Integrated weed management will be emphasized where appropriate. Discussion of physical, mechanical, cultural, biological and chemical control will highlight this presentation. Emphasis will be made regarding the correct timing of control based on the life cycle of the weed, environmental conditions, and safety of the applicator and to those working in the area. The principles of plant pathology including the disease triangle, resistance and susceptibility of hosts, climate, soil and environmental conditions, and plant pathogens will be discussed. Integrated pest management will be emphasized. The use of the avoidance, sanitation, resistance, proper cultural practices, mechanical processes, biological agents, biorational products, and standard chemical treatments as control and management alternatives will be presented.

Right of Way Pest Control Review (.75 CEU General) Presenter: Tommy Kezar

Principles of weed management regarding invasive species including annual, biennial and perennial weeds will be highlighted. Integrated weed management will be emphasized where appropriate. Discussion of physical, mechanical, cultural, biological and chemical control will highlight this presentation. Emphasis will be made regarding the correct timing of control based on the life cycle of the weed, environmental conditions, and safety of the applicator and to those working in the area.

CEU Breakdown Day 2:

2.0 Law

2.0 General

4.0 Total

Presenter List

Scott D. Cichowlaz

Scott Cichowlaz, Agriculturist III / Continuing Education Coordinator, Nevada Department of Agriculture.

B.S. Education (major: General Science, Minor: Geography) from the University of Nevada at Reno, 1993.

I have worked for the Nevada Department of Agriculture (NDOA) for the last 19 years. I am currently working in the Pest Control Licensing Section as the Continuing Education Coordinator. I conduct routine pesticide inspection, both use and misuse. I moved from the Environmental Compliance Section of the NDOA where he had the responsibility for the EPA/State pesticide program in Southern Nevada & and the statewide groundwater protection program which protects Nevada's groundwater from pesticide contamination in 1999. I still act as the liaison for these programs in southern Nevada. I began my career in the NDOA working for the State Entomologist in biological control section (APHIS) before moving to Las Vegas. I have worked on other NDOA programs, such as: protecting Endangered Species from pesticides, the Farm Worker Protection program, and have conducted many agricultural field inspections for plant diseases and insects.

M.L. Robinson

Teaching

With the University of Florida, I developed programming in fields of commercial horticulture including urban forestry, pesticide safety, CEU training, and retail and wholesale nursery training programs (using the text I wrote for graduate school). I developed on-going training programs for county, city, and parks employees. I facilitated county and statewide programs and developed advisory committees for each programmatic area that determined community needs.

With the University of Nevada Extension, I developed programming including Desert Bioscape (principles of sustainable desert landscaping) and Desert Green (regional conference for commercial clientele now in its 11th year). Over 350 people attend the Desert Green conference, which includes 36 different classes and a tabletop trade show. A colleague and I developed the correctional horticulture training program, a 16-class course presented in six institutions. Along with these and other programs, I developed materials for the classes. I also developed training related to palm care and growing in southern Nevada and the southwest. Water conservation, recycling, and water harvest is an important component of all my programming and research.

Research

In research, my record includes journal articles, presentations, posters, grants, fact sheets, and special publications on national and international levels. I am presently researching palm seed germination and new palms for southern Nevada. I am working on two books; growing cactus in Southern Nevada and growing palms in southern Nevada, similar to the date palm book I completed. In both Nevada and Florida, I have been instrumental in obtaining grant funding and in-kind donations. My most recent acquisitions were towards landscape development of the new off-campus extension building, which included more than \$20,000 in plants, landscape materials and other services. I obtained \$10,000 from the water authority for signage equipment last year. TV and other media are an important part of my teaching, allowing me to reach a large audience.

Education:

Doctorate Studies, *University of South Florida*, Adult Education, Tampa, FL (1988-1991)

University of Nevada Las Vegas, Environmental Studies, Las Vegas, NV (1997-2001)

Master of Science, Horticulture/Nursery Management, 1981
Brigham Young University, Provo, Utah - GPA 3.6

Bachelor of Science, Horticulture/Agriculture, 1975
Brigham Young University, Provo, Utah - GPA 3.4

Jon Carpenter

Jon Carpenter began working for the Nevada Department of Agriculture in 1987 after he graduated from UNR with a degree in Plant Science.

He has worked in various department programs and his experience includes noxious and aquatic weed management as well as rangeland insect control.

He has also done extensive work in the department's vertebrate pest section.

Since 1994 he has worked in the Pesticide Compliance Branch where he coordinates groundwater monitoring projects, pesticide safety training, and waste pesticide collection activities.

Jeff Knight

Jeff Knight received his Bachelors of Science in General Agriculture – option in Pest Control from the University of Nevada – Reno in 1977. He continued his studies at Utah State university in Logan, Utah where he obtained his Master's of Science in Biology – Entomology. Jeff has worked at the Nevada Department of Agriculture for 24 years; first as an Agriculturist (1985 – 1993) and in 1993 accepted his current position as State Entomologist. Prior to his career at the Nevada Department of Agriculture, Jeff has served as a UNR Extension Entomologist (1982 – 1985), UNR Research Associate (1980 – 1982) and various other teaching and research positions.

Jeff currently identifies and makes recommendations for general insect and other pest problems, coordinates and conducts surveys for quarantine pests, coordinates and conducts releases of bio-control agents for various weed and insect pests, and conducts various other inspections of agricultural commodities and nurseries for harmful and injurious pests.

Charles Moses

Charles Moses, Environmental Scientist IV
Nevada Department of Agriculture
350 Capitol Hill Avenue
Reno, Nevada 89502

Education: Master of Science degree in Agribusiness, August 1983. Arizona State University, Tempe, Arizona.

Bachelor of Science degree in Forestry, March 1979. Michigan State University, East Lansing, Michigan.

Professional Experience:

1987 to Present: Environmental Scientist IV, Nevada Department of Agriculture (NDOA): Program administrator at the Nevada Department of Agriculture, Environmental Compliance Branch. Chuck has oversight responsibilities for the U.S. Environmental Protection Agency, Pesticide Enforcement/Certification Cooperative Agreement, USDA SITC/Pesticide Record Keeping Program, and a Homeland Security sub-grant which resides at the NDOA. Chuck also serves as agency safety coordinator.

1986: Propagator, Palo Verde Nursery, Mesa, Arizona

1981-1985: Administrative Assistant, Inter-Tribal Council of Arizona

1984-1985: Pesticide Program Manager, Gila River Indian Community

1979-1980: Research Biologist, Arizona State University

1977: Nurseryman, Sno-Kist Tree Company, Cheboygan, Michigan

Chuck is the Environmental Compliance Branch Chief and is responsible for program outreach and enforcement related to federal/state laws that address pesticide use, production, distribution, and sale. He also works closely with the Nevada Cooperative Extension to develop related training program.

Tommy Kezar