

Questionnaire on the Development of the Portable Arborist Training.

We would appreciate your feedback on the training we are developing. On the first page are some questions we would like you to answer. On the following pages please rank the topics based on how you feel the topic is important on your island. Thanks.

Name: _____

Module Content

1. Of these core chapters, which one of these chapters would you like detailed instruction provided?
2. Please review sub topics (contained on the following pages), which ones would like specialized pacific island information and content. Why?
3. What topics are missing in this list that would be important for you to learn about? Why? (this question is where we get our pacific focused content)

Module Use

1. What do you like about the system presented?
2. What do you not like about the system presented?
3. What partner groups should we target for this system?

Topics Covered in ISA Materials

1. Introduction to Arboriculture: Tree Biology

- a. Tree Anatomy
- b. Cells and Tissues, Wood, Buds and Branches, leaves, Roots
- c. Tree Physiology

2. Introduction to Arboriculture: Tree Worker Safety

- a. Safety
- b. Laws & Regulations, Personal Protective Equipment, Good communication, General safety, electrical hazards, Chain saw safety, Tree Felling & Removal, Chipper Safety
- c. Climbing
- d. Inspection of Gear, Knots, Inspection of Tree, Climbing Techniques, Tying in, Work positioning, Response & Rescue
- e. Rigging
- f. Rope, Design & Limitations, Equipment, Rigging Techniques, Cutting Techniques

3. Introduction to Arboriculture: Pruning

- a. Principles of Pruning
- b. Pruning objectives, Branch attachment, How to prune, When to prune, Pruning tools, topping
- c. Practices and Standards
- d. Pruning for structure, pruning types, Specialty pruning, Pruning cuts, Utility Pruning, Pruning Specifications

4. Introduction to Arboriculture: Tree Identification and Selection

- a. Identification Principles
- b. Plant Classification, Plant Nomenclature, Basic ID Principles, Using a key
- c. Common Genera
- d. Gymnosperms, Broadleaf trees-opposite arrangement, Alternate Simple Lobed or Entire, Alternate Simple Serrate, Alternate Compound
- e. Palms
- f. Plant Selection
- g. Matching and Site, Site Considerations, Tree Considerations, Selecting Trees at the Nursery

5. Introduction to Arboriculture: Diagnosis & Disorders

- a. General Diagnosis
- b. Systematic process, Symptoms and Signs, Tree Stress, Diagnostic guide
- c. Abiotic Disorders
- d. Soil and Site Problems
- e. Physical and Mechanical Injuries
- f. Weather-Related Problems, Competition and Allelopathy
- g. Pollution Damage/Chemical Injury
- h. Water Availability
- i. Girdling Roots
- j. Biotic Disorders
- k. Insects-general information

- l. Insects-types
- m. Mites and Nematodes
- n. Other animals
- o. Diseases
- p. Getting laboratory assistance

6. Introduction to Arboriculture: Planting & Early Care

- a. Planting
- b. Plant Selection
- c. Stock types
- d. Planting techniques
- e. Transplanting
- f. Mechanical Tree Spades
- g. Early Care Water demands
- h. Mulching
- i. Tree Stabilization
- j. Pruning
- k. Planning Specifications

7. Introduction to Arboriculture: Tree Maintenance

- a. Tree Support Systems
- b. Rigid Support systems - Cabling
- c. Cabling hardware
- d. Cabling tools
- e. Aline installation techniques
- f. Dynamic support system
- g. Bracing
- h. Guying
- i. Inspection & Maintenance
- j. Fertilization
- k. Tree requirements
- l. Fertilizer
- m. Application Techniques Soil & Plant uptake
- n. Analysis & Prescription
- o. Lightning Protection Systems
- p. Lightning & Trees
- q. Lightning Protection systems
- r. Candidates for protection
- s. Installation & Inspection

8. Introduction to Arboriculture: Plant Health Care

- a. Plant Health Basics
- b. Definition and Philosophy
- c. What is a healthy plant?
- d. Diagnostic Process
- e. Symptoms and signs
- f. Biotic disorders
- g. Abiotic disorders
- h. Plant defense mechanisms
- i. PHC Practices

- j. Plant health care process
- k. Integrated pest management
- l. Monitoring
- m. Health management strategies
- n. Management Techniques
- o. Cultural control
- p. Biological control
- q. Chemical control
- r. Alternative pesticide options

9. Introduction to Arboriculture: Soil & Water

- a. Soils
- b. Physical properties
- c. Soil Structure & pore space
- d. Chemical properties
- e. Biological properties of soil
- f. Soil moisture & plant growth
- g. Urban soils
- h. Soil improvement
- i. Trees & Water
- j. Soil water
- k. Trees & water
- l. Irrigation
- m. Irrigation systems
- n. Water management
- o. Water conservation
- p. Flooding
- q. Drainage

10. Introduction to Arboriculture: Risk Assessment & Tree Protection

- a. Risk assessment basics
- b. Tree inspection
- c. Tree decay
- d. Decay & risk
- e. Risk assessment & management
- f. Mitigation options
- g. Liability & negligence
- h. Trees & Construction
- i. Construction damage
- j. Construction practices
- k. Planning & preservation
- l. Avoiding construction damage
- m. Grade changes
- n. Treatment of trees damaged by construction
- o. Role of the arborist