

AIA Information

APPA)

Credit(s) earned on completion of this course will be reported to American Institute of Architects (AIA) Continuing Education Session (CES) for AIA members.

Certificates of Completion for both AIA members and non-AIA members are available upon request.

This course is registered with AIA CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.



Course Description



Many campuses are defined by their landscape, and specifically their trees. This presentation will provide a technical discussion of grounds related issues with an emphasis on trees and other plantings. Topics will include plant selection, native vs nonnative species, maintenance techniques, Integrated Pest Management programs, pesticides and herbicides, and sources of technical support.



AIA Continuing Education Provider

Learning Outcomes

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Learning Objective 1: Discuss how campuses are defined by their landscapes and specifically their trees.

Learning Objective 2: Technical discussion of grounds related issues with an emphasis on trees and other plantings.

Learning Objective 3: Learn how to select plants, native versus non-native species.

Learning Objective 4: Discuss maintenance techniques, integrated pest management programs, pesticides and herbicides, and sources of technical support



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Trees in the Campus Landscape

Agenda

- Design & Selection
- Purchasing & Planting
- •Tree Protection
- Tree Management
- •Plans, Programs & Inventories



Campus Trees

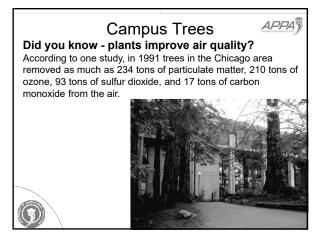


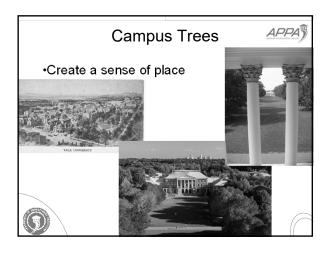
- Create habitat
- •Protect & improve soils
- •Reduce erosion & storm water run off
- Sequester carbon

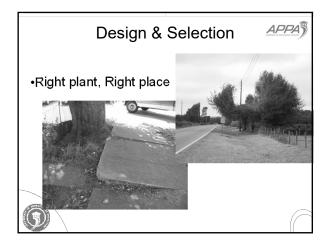




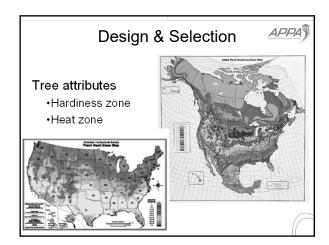
Campus Trees Provides cooling and reduces heat islands. Shade and evapo-transpiration cool buildings and save energy.







•Site evaluation •Soil type •Soil moisture •Sun exposure •Available space •Maintenance practices









Design & Selection

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Native vs, Non-Native

Eliminate the use of invasive plants.

An invasive species is defined as "an alien species whose introduction does or is likely to cause economic or environmental harm or harm to human health."





This is not the same as non-native!

Purchasing & Planting

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•ANLA – Standard for Nursery Stock

•Condition – container, B&B or bare root?





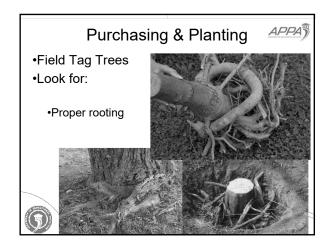
Purchasing & Planting

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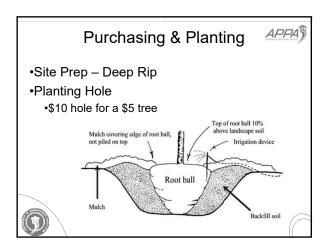
- •Field Tag Trees
- •Look for:
 - •Branch structure
 - •Trunk damage

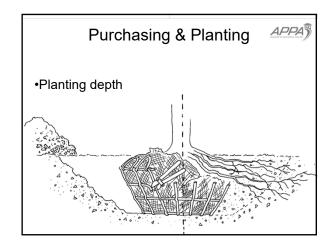


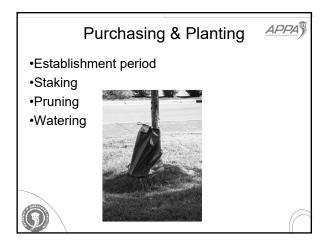


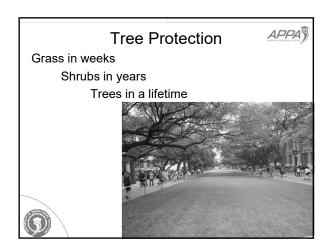




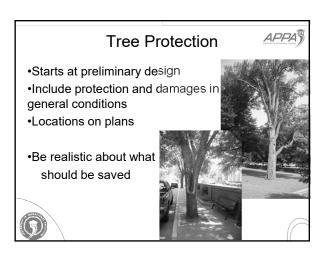


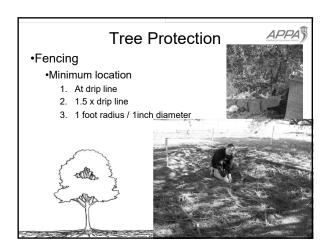


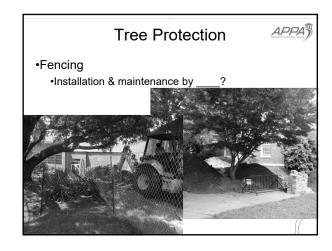


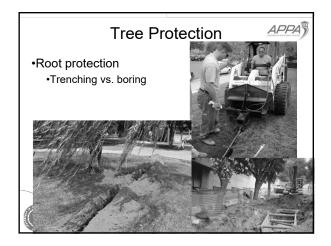


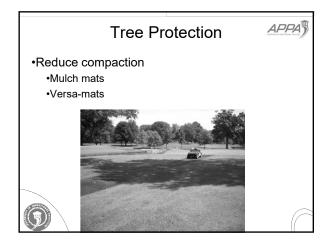
Tree Protection Compaction reduces spaces for oxygen and water in the soil, reduces root growth and access to water and nutrients. Hurry up and die would ya!



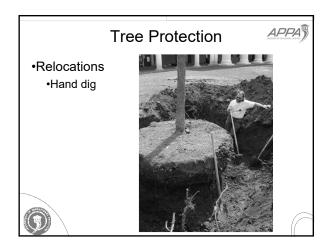




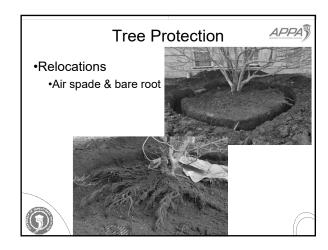


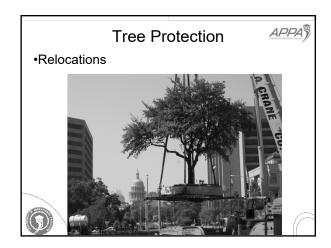


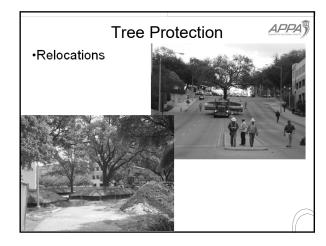












Tree Management

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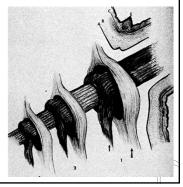
- •Tree Biology Quiz
 - 1. Trees grow from the bottom up. T/F
 - 2. Trees shed only leaves and bark. T/F
 - 3. When pruning make a smooth flush cut. T/F
 - 4. Roots grow farther than the drip line. T/F
 - 5. Most trees have tap roots. T/F
 - 6. Its better to bore deep than dig shallow. T/F
 - 7. Counting the tree's growth rings tell the trees age. T/F



Tree Management

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•Tree Biology plant growth





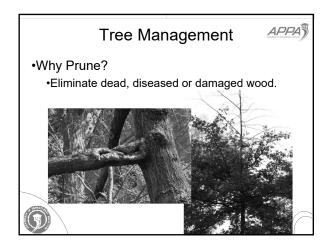
Tree Management

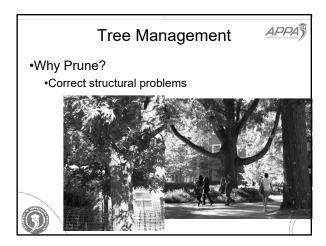
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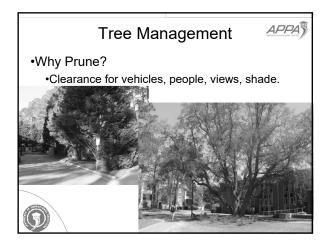
•Tree Biology
•Compartmentalization

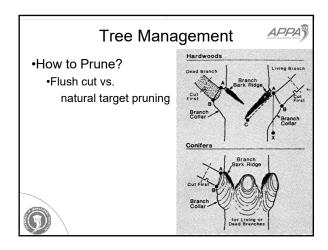






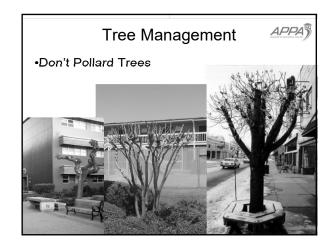


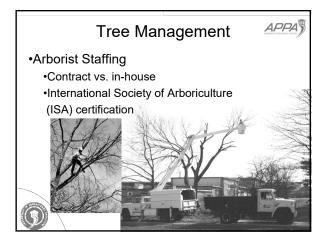


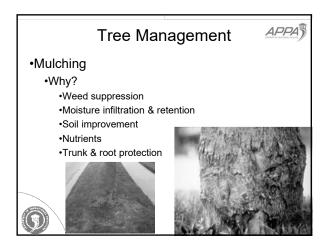


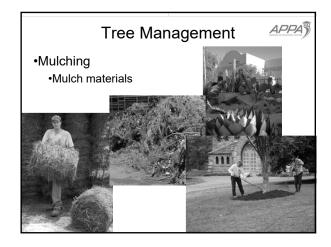


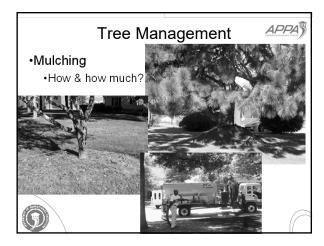












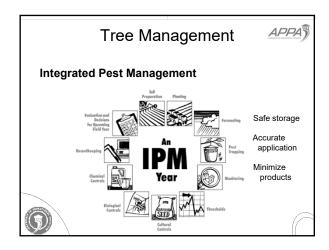
Tree Management



Integrated Pest Management

Integrated Pest Management (IPM) is an effective and environmentally sensitive approach to pest management that relies on a combination of common-sense practices. IPM programs use current, comprehensive information on the life cycles of pests and their interaction with the environment. This information, in combination with available pest control methods, is used to manage pest damage by the most economical means, and with the least possible hazard to people, property, and the environment.









Plans, Programs & Inventories PPA

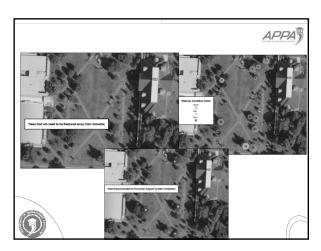
- •Tree Campus USA Arbor Day Foundation Requirements
 - 1. Campus Tree Advisory Committee
 - 2.Campus Tree Care Plan
 - 3.Campus Tree Program with Dedication Annual Expenditures
 - 4. Arbor Day Observance
 - 5. Service Learning Project

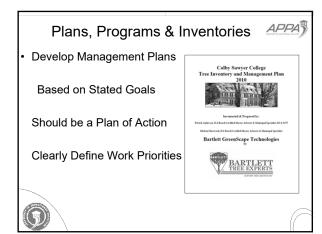


Plans, Programs & Inventories PPA

- Tree Inventories
 - •GIS based
 - •Contract or In-house







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