

TREE MAINTENANCE
Course Proposal

LH 60

by

Tom Nettell

OBJECTIVE

Provide instruction and facility for the training of personnel in the skills of practical tree maintenance.

GOAL

Gear classroom and field work to aid students in preparing for I.S.A. tree climbers' certification test.

COURSE WORK

- A. Practical aspects - general
 - 1. Safety in all of the below A.N.S.I.
 - 2. Growth aspects of common trees for strength of wood
 - 3. Ascending and descending from trees
 - a. Prussic or foot lock method
 - b. Use of climbing spurs { on removals }
 - 4. Equipment
 - a. Chain saws
 - 1] Usage
 - 2] Daily maintenance
 - b. Aerial devices
 - 1] Various types
 - 2] Applications
 - 3] Daily maintenance
 - c. Brush disposal
 - 1] Chippers
 - 2] Tub grinders, and industry
- B. Practical aspects - specific areas of instruction
 - 1. Growth characteristic of common trees - how pruning affects growth
 - 2. Hinging characteristics of common trees
 - 3. Rigging - lowering limbs and heavy wood
 - 4. Basic felling techniques
 - 5. Basic cabling and bracing techniques
- C. Classroom instruction
 - 1. Basic tree anatomy - recognition of existing defects as they relate to structural integrity of individual trees
 - 2. Common tree diseases - pathogenesis as well as signs of pest infestation
 - 3. Basic cultural practices
 - 4. Identifying and working around overhead and underground utilities
 - 5. Planning for protection of the public at job sites

Tree Trimming School
Outline Beginner,s Class

Week one

Lab class

- A. Knots
- B. Climbing gear demonstration

Field class

- A. Tree entry and exit techniques
- B. Practice session

Week two *Supplies, hand tools, safety, glasses*

Lab class

- A. Review
- B. Basic hand tools
- C. Strength characteristics of common trees

Field class

- A. Practice session on entry and exit techniques
- B. Instruction and practice on using safety rope to move around in trees

Week three

Lab class

- A. Basic pruning skills
- B. Introduction to chain saws

Field class

- A. Basic hands on tree pruning [using hand tools]
- B. Ground practice with chain saws

Week four

Lab class

- A. Continuation of lecture on basic pruning
 1. More in depth on how trees are affected by pruning
 2. Hidden hazards [brief discussion]
 3. Basic job planning

Field class

- A. Introduction to aerial devices
- B. Introduction to brush chippers
- C. Group oral examination

Tree Trimming School
Course Work Beginner's Class

- A. Knots
- B. Climbing gear
 - 1. Various types and manufactures of saddles, hooks, ropes
- C. Handtools
 - 1. Loppers
 - 2. Handsaws
 - 3. Pole pruners
 - 4. Pole saws
- D. Chainsaws
 - 1. Brands, sizes , Basic maintenance
- E. Safe entry and exit from trees [climbing]
- F. Basic pruning techniques
- G. Introduction to aerial devices
- H. Brush chippers
 - 1. Safe usage
 - 2. Basic maintenance
- I. Tree identification
 - 1. Strength factors of common trees.
- J. Hidden hazards
 - 1. Possible structural defects is trees to be worked in.
 - 2. Electrical hazards
 - 3. Protecting the public at job sites
- K. Basic crew management
 - 1. Communication
 - 2. Job planning

Announcing . . .

1998 ARBORICULTURE SHORT COURSES Community-Based, Certificate Program LH 60 Series

Reedley College
Landscape, Agriculture, Natural Resources Department

Arboriculture I Sch.# 1272	<u>Beginning Tree Climbing & Pruning</u> Saturdays: 7:00 a.m. - 2:50 p.m. 2 hours lecture & 6 hours lab per week September 5, 12, 19 & 26 Instructor: Tom Nettell Location: Fresno City College Prerequisite: None	1 Unit Room T-600
Arboriculture III Sch.# 1273	<u>Tree Diagnosis & Maintenance</u> Wednesdays: 6:00 p.m. - 10:15 p.m. 4.5 hours lecture per week October 7, 14, 21 & 28; November 4 & 11 Instructor: Hilary Cowger Location: Fresno City College Prerequisite: None	1½ Units Room T-204
Arboriculture II Sch.# 1274	<u>Intermediate Tree Climbing, Pruning & Care</u> Saturdays: 7:00 a.m. - 2:50 p.m. 2 hours lecture and 6 hours lab per week October 3, 10, 17 & 24 Instructor: Tom Nettell Location: Fresno City College Prerequisite: Arboriculture I or instructor approval	1 Unit Room T-600

Chuck Duncan and Glen Foth, Arborists, are assisting as technical consultants for these courses.

REGISTRATION: Contact the Reedley College Admissions & Records Office for application, registration, and other enrollment forms. Telephone: (209) 638-3641. **Due to the nature of the course, students will not be allowed to register after the first week of each course.**

FEES: The required class fees include: \$12/unit for enrollment, \$4 state mandated health fee, and a \$10/course printed materials fee.

INFORMATION: For further information, contact the Reedley College L.A.N.D. Department office at 638-0310, or Fresno City College Environmental Services (Glen Foth) at 442-8255.

Certified Arborist & Tree Worker inservice hours have been applied for through the Western Chapter, ISA.

CERTIFICATE of COMPLETION will be awarded to students successfully completing each course.