

Lesson Plan

Subject: Windbreak/Shelterbelt Design Procedures

Time Needed for Training: One Day

Training Setting: Indoor _____ Outdoor _____ Combination _____ X

Needed Set-up

Meeting room with PowerPoint projection capabilities
Locations for field trip to view WB designs
Examples of WB designs on PowerPoint in case of inclement weather
Maps and transportation to field trip sites
CTSGs, Standards, etc
Handouts

Explanation /
Description /
Comments

Suggested resources are listed, but may/should be altered for local situations or substituted with either other materials from library or those developed locally.

The session begins in the morning and so travel will be a consideration
Arrangements for travel, restroom stops, lunch, etc will need to be considered for the tour part of the training.

Topics are divided into the following:

- Windbreaks and support forestry and other practices
- Windbreak design with examples
- NRCS windbreak design procedures including review of FOTG and design forms
- Field trip to view designs (Both good and bad)

Topic Lesson Plan

| | | | |
|---------|---|----------------|---|
| Subject | Windbreak/Shelterbelt Design Procedures | Number of days | 1 |
|---------|---|----------------|---|

| | | | |
|---------------------------|---|--|--|
| Day | 1 | Morning Session (Indoors) | |
| Topics | | <ol style="list-style-type: none"> 1) Introductions, Objectives, House keeping 2) Windbreaks and Supporting Conservation Practices (15 min) 3) Windbreak Design Procedures Examples (60 min) <ol style="list-style-type: none"> a) The Good, Bad, and the Ugly b) WB Examples and Techniques from Northwestern NE c) A brief Look at 5 Years of Conservation Plantings in Northeast NE 4) Windbreak Design Procedures - NRCS Guidelines (75 Min) <ol style="list-style-type: none"> a) Review job sheets, standards, etc b) Transmission R-O-W considerations c) Test your knowledge | |
| Time to cover | | Listed above. Include 15 min. break midway | Indoor <u> x </u> Outdoor <u> </u> |
| Resources (presentation) | | <ol style="list-style-type: none"> 2) <i>Miller Kearney- Intro- ForPractices6-10.pptx</i> in PowerPoints\ Intro folder 3a) <i>Hiatt-Good Bad Ugly working.pptx</i> in PowerPoints\ Intro folder b) <i>Casselman-Winbreak2.pptx</i> in PowerPoints\ Intro folder c) <i>Severe Kearney Windbreak Workshop.pptx</i> in PowerPoints\ Intro folder 4) <i>Windbreak Design- Kearney6-16-10Final.pptx</i> in PowerPoints\ Intro folder a) <i>NE380.pdf, NE380DP.pdf, NE-CPA-15(Tree Shrub Pltg Plan.pdf</i> in Documents\Windbreak Design folder, and locally developed materials b) Locally developed or substitute with other topic locally relevant c) Developed locally | Attached/Library <u> L </u> Attached/Library <u> L </u> Attached/Library <u> </u> Attached/Library <u> </u> |
| Resources (handouts) | | <ol style="list-style-type: none"> <i>NE380.pdf, NE380DP.pdf, NE-CPA-15(Tree Shrub Pltg Plan.pdf</i> in Documents\Windbreak Design folder, and State Standards Job Sheets Appropriate NAC publications | Attached/Library <u> </u> Attached/Library <u> </u> Attached/Library <u> </u> Attached/Library <u> </u> |
| Materials, equipment, etc | | PowerPoint projection capabilities Copies of handouts Agenda | |
| Comments | | Library presentation should be altered for use. Handouts should also include N.A.C. publications Introductions may include participants describing their experience with windbreak design, establishment, maintenance, etc | |

Topic Lesson Plan

| | | | |
|---------|---|----------------|---|
| Subject | Windbreak/Shelterbelt Design Procedures | Number of days | 1 |
|---------|---|----------------|---|

| | | | |
|---------------------------|---|---|---|
| Day | 1 | Afternoon Session (Outdoors) | |
| Topic | Tour | | |
| Time to cover | Need to consider travel time to site and home | Indoor | |
| | | | Outdoor <input checked="" type="checkbox"/> |
| Resources (presentation) | | Attached/Library <input type="checkbox"/> | |
| | Appropriate maps, job sheets, soils info, standards, etc. | Attached/Library <input type="checkbox"/> | |
| | | Attached/Library <input type="checkbox"/> | |
| | | Attached/Library <input type="checkbox"/> | |
| Resources (handouts) | | Attached/Library <input type="checkbox"/> | |
| | | Attached/Library <input type="checkbox"/> | |
| | | Attached/Library <input type="checkbox"/> | |
| | | Attached/Library <input type="checkbox"/> | |
| Materials, equipment, etc | Travel accommodations that are appropriate for the site(s) visited and for the return trip home following the training. | | |
| Comments | The purpose of the field trip is to view windbreak designs that have been applied. In case of inclement weather, instructors should have examples via PowerPoint prepared. | | |