

Skyline Analysis and Layout Workshop Module
Oregon State University, College of Forestry
LaSells Stewart Center
November 13-17th, 2017

Presented by:

Loren Kellogg, Professor Emeritus, OSU || Jeff Wimer, Senior Instructor, OSU

IMPORTANT! Please bring the following to the workshop:

- Clothing and footwear appropriate for field work (rain or shine)
- Hard Hats
- Laptop computer with Skyline XL (Don't have it? Download it [here](#).)
- Cruiser Vests with supplies (marking pens, clinometer, compass, etc)

We will have some limited cruiser vest supplies for those who cannot bring their own.

Monday, (Classroom)

1:30 – 2:00 PM	Workshop Introduction and Overview
2:00 – 3:00 PM	Harvest Planning and Layout Environment <ul style="list-style-type: none">• What is successful skyline harvesting?• Review cable systems and skyline carriages• Uphill versus downhill yarding• Different levels of harvest planning
3:00 – 3:15 PM	Break
3:15 – 5:15 PM	Importance of Skyline Deflection Analysis in Harvest Unit Layout <ul style="list-style-type: none">• Variables affecting skyline deflection• Wire rope characteristics• Skyline safe working loads• Determining skyline payloads (Skyline XL software)• Applying skyline payload analysis information in harvest layout
5:15 – 5:30 PM	Wrap-up
7:00 - 8:30 PM	OPTIONAL: Exercise with Skyline XL Further Q&A on Monday topics

Tuesday, (Classroom)

- 8:30 – 9:30 AM Overview of Skyline Planning & Layout Process
Importance of Field Review/Reconnaissance
- 9:30 – 10:00 AM Skyline Logging Landings
- Wood flow through the landing
 - Yarder guylines
 - Anchors
- 10:00 – 10:15 AM Break
- 10:15 – 12:00 PM Continue with Skyline Logging Landings
- 12:00 – 1:00 PM Lunch
- 1:00 – 3:30 PM Tailtrees and Intermediate Supports
- When and where to use
 - Design and layout
 - Model demonstration
- 3:30 – 3:45 PM Break
- 3:45 – 5:00 PM Skyline Corridor Field Layout
Use of field cards to assist with layout
- 5:00 – 5:30 PM Overview of Wednesday field day

Wednesday, (Field)

- 8:00 AM– 5:00 PM Morning: Terrain Data Collection and Landing Layout
- Skyline corridor layout
 - Tailtree and intermediate support layout
 - Skyline profile survey (exercise)
 - Landing layout (exercise)
- Afternoon: Yarder and Skyline Set-Up
- Yarder and landing set-up
 - Skyline road changes
 - Tailtree and Intermediate support rigging
 - Choker setting on a skyline thinning operation
- 6:30 – 9:00 PM Work on skyline profile and payload analysis with Skyline XL, and landing layout exercises with field data. *DINNER INCLUDED*

Thursday, (Field)

- 8:00 AM – 5:00 PM Morning: Demonstrations
- Multiple stump rigging
 - Wire rope splicing (basic)
 - Intermediate support layout and rigging
 - Tree felling
- Afternoon: Presentation and Discussion
- Skyline corridor layout and landing design
 - Field workshop participant group presentations on layout exercise; discussion

Friday, (Classroom)

- 8:30 – 10:00 AM Linking skyline planning and yarding operations to other harvesting system components
- Felling practices
 - Residual stand damage
 - Safety
 - Tethered assist with ground-based equipment
- 10:00- 10:15 AM Break
- 10:15 – 11:30 AM Panel Presentation
- Discussion on Skyline thinning practices
 - Timber sale administrators and logging contractors...working together
- 11:30 AM – 12:00 PM Workshop Review, Summary, and Evaluation