



# Forest Technology 101

by Johnny Thompson

This class is a great overview of how to use the latest cruising tools, GPS, GIS, aerial photos and topos, and inventory and growth and yield software to help you be a more professional and productive forestry consultant. LandMark Systems currently works with hundreds of consultants and timber managers across the United States and specializes in developing systems that increase accuracy and efficiency both in the office and field. In this class, Johnny will demonstrate how to use GPS in conjunction with ArcGIS databases and aerial photos to help with cruise design and inventory. He will also show how to link cruise data back into a GIS so that spatial differences in volumes can be easily represented on a map. Lastly, he will demonstrate how to use SiMS 2006 growth and yield software both to manage stands for optimal growth and economic profitability, and to calculate carbon sequestration potential. Bring your Forest Technology questions and come learn how these tools can help you.

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# Forest Technology 101 Agenda

## **1:00 – GPS for the Field Forester**

1. GPS Improvements – Velocity Filters, WAAS, Rugged Handhelds, Secure Data Storage, Better Batteries, Bluetooth, User-Friendly Software
2. GPS Hardware Options – Recreational vs. Mapping/Professional Grade
3. GPS Software – Solo Forest

## **2:00 – How to use ArcGIS basemaps and stand data in the field**

1. ArcGIS – Digitizing on Aerial photography
2. Real Time Inventory (RTI) – Cruise Grids, Plot Navigation, TCruiseCE
3. Haglof Cruising Tools – Digital Clinometer, DME, Vertex Hyposometer, Vertex Laser, Calipers

## **3:00 – Break**

## **3:10 - How to use TCruise Office and the LandMark TCruise Reports Module**

## **3:30 – How to Integrate Forest Inventory and GIS in the Office**

1. Data Layers in ArcGIS
2. Joining Plot Data in ArcGIS
3. Plot Symbolology and Analysis

## **4:00– What about Growth and Yield, and Harvest Scheduling?**

1. SiMS Overview
  - a. Creating New Stands and Inputting Stand History
  - b. Defining Cultural Treatments, Product Specifications, and Economic Assumptions
2. RTI SiMS Import Module
3. Simulating Management Regimes
4. SiMS and Carbon
4. SiMS Reports

## **4:45 – Final Questions**

## **5:00 - Conclude**