

Sample agenda; Tree Risk Assessment (Hazard Tree) Workshop with Ed Hayes; author of “Evaluating Tree Defects” field guide, second edition.

Registration: begins at 8am.

8:30am - 10:00am.

Tree basics; introduction, inspections and rating methods, biology of tree risk assessment, compartmentalization, types of decay, resistance to decay, where to find the weakest wall, adaptive growth, species profiles, modes of failure, and diebacks and declines.

Break 20 minutes.

10:30am - 12:00am.

Evaluating tree defects; including but not limited to; dead wood, branch attachments and co-dominant stems, wounds and cankers, cracks, ribs, and seams, abnormal growths, branch, stem, and root decay (How much sound wood is enough and where?), tree architecture including leans, crown ratios, stem/branch taper, and asymmetry, and root anchoring and wind-throw.

Structural assessment check lists and field forms and easy to use methods for evaluating branch and stem decay, asymmetrical decays, and root decay and root loss assessment.

Treatment and prevention; crown reductions, cabling and bracing, propping, and useful cultural practices to prevent tree failures.

Lunch

1:00pm – 2:00pm. As time permits; or in the field.

Tree mechanics; adaptive growth, reaction wood, contract stress, bending moments (Mb), components of wind loading, live crown ratios (load centers!), taper (diameter/height ratios!), bearing capacity (second moments of area), material strength, and safety factor.

2:30pm - 4:30pm. Field exercise;

Field exercises are hands on. Evaluation of trees defects, decay detection; visual, sounding and probing, and decay evaluation; Resistance drilling, portable drill with brad point bits, resistograph, and increment borer.