Hazards are Minima and Understood	Il, Static, CO	MPLEXI	TY Hazard	ls are Numerous, Dynamic, Iderstood and/or Unstable	
Known Low Release of Energy Release of Energy Known but May Require Series of Cuts High Release of Energy Expected or Unknown					
Fell to any lay	<1" Lift to Overco	ome Lean 1'	1"-2" Lift to Overcome Lean		
		Fire Present	Fire We	akened	
			Hung or Li	imb Locked Trees	
Static Hazards		R	Dynamic Hazards		
Clear Escape Paths			Escape Path or Co	over Limited	
Green or Sound Hinge			Compromised Hinge		
Simple Binds		Multiple Compound Bi	nds S	itorm Damage or Jackstraws	
	C.	Double Cut Undercut/Ba	ckcut >Do	ouble Cut Undercut/Backcut	
Moderately Sloping Ground QUALIFICATION Steeply Sloping Ground					
Dynamic Factors Affe	cting Saw Operatio	n Do those		<u>STOP</u>	
Human Factors Attitude, Fatigue, Stress, Une	expected Reactions, Plan Fa	ailure factors alig	I <u>I YES,</u> In Proceed	No Safe Lay	
Environment with your				No Escape Route No Escape from Hazards	
Static Factors Affecting S Objective, Fiber, Lay, Terrain,	Saw Operation Known Tree Defects	ability an qualificatio	n? <u>Reassess</u>	Base Won't Support Stem If Cut Cutting Plan ≠ Objective Cutting Plan Changed	
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Five Step Cutting Process

Felling/Bucking/Limbing/Brushing

Objective

Regardless of task, develop a plan to determine where you want the cut piece to end up.

- . If felling, plan the most desirable placement or lay for the tree
- + If bucking, plan where you want the bucked log or round to go
- If limbing, determine sequence and direction for large branches when cut
- If brushing, particularly in thick brush, plan how you will remove the brush when it is cut

Hazards/obstacles

Develop a plan to identify the hazards/obstacles:

- That are overhead (fire, rotten top, widow makers and loose bark)
- That are in the piece of wood being cut (fire, rot and hinge wood integrity, hollow, bar/saw length compared to diameter, bees or poison plants)
- Springpoles
- · Buildings, equipment or other trees you don't want damaged
- That are associated with people and cutting area control

Leans/compression/tension

Since lay, cut piece placement, sequence or removal was determined in O develop a plan to:

- Determine lean of a standing tree. Calculate, in feet, the amount of head/back lean and side lean
- Determine binds in log to be bucked, springpoles, limbs or brush to be removed

Escape path

Since leans and binds were determined in the previous step develop a plan to:

- Determine the 'good' and 'bad' side of the tree, log, springpole, limb or brush
- * Determine and clear an escape route (or 2 routes if necessary for crosscut saw/axe work or situations that require two routes)

Cut plan

Develop a cut plan to determine which technique will be used to remove wood fiber to achieve the desired result including:

- Face notch construction type (conventional, Humboldt, or open face)
- Hinge position, length of hinge, depth of hinge and amount of stump shot needed
- Back cut type (straight in from the back or chase, boring back cut and out the back, boring back cut with release or hold in wood or strap)
- Wedge placement including number of wedges and axe placement
- Sawyer communication to crew members, swamper or crosscut sawyer partner