NLGA Shop – Lesson 5

I. Factory Zone:

a) Utilized for Shop lumber with large knots, cut into clear pieces for sash, doors, and joinery.

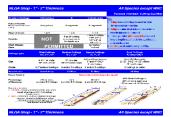


II. NLGA:

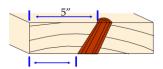
a) Incorporated January 12, 1971, responsible for Canadian lumber grading rules.

III. Shop Lumber Grades:

a) Based on quality and percentage of cuttings obtainable.



IV. Grading:



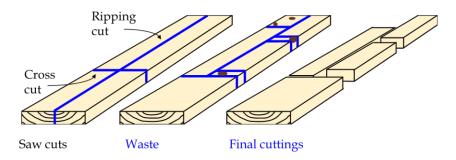
a) From the poorest face, applied to each cutting.

V. Cutting Qualities:

a) A (flawless), B, and C cuttings. Only "A" cuttings allowed for practical review and exam.

VI. Characteristics:

a) Large knots, bark seams, burls, etc., must be removable by ripping and cross-cutting.



VII. Valid Cutting Sizes:

- a) Wide Cuttings: ≥ 9¼ inches wide, ≥ 18 inches long.
- b) **Medium Cuttings:** \geq 5 inches wide, \geq 36 inches long.
- c) Full Width Cuttings: < 5 inches wide, ≥ 36 inches long.
- d) **Sash Cuttings:** 2½, 3½, 4½ inches wide, ≥ 28 inches long (for Number-Three Shop).

VIII. Grades:

- a) **Select Shop:** ≥ 70% recovery.
- b) Number-One-Shop: 50% to 70% recovery.
- c) Number-Two-Shop: 331/3% to 50% recovery.
- d) **Number-Three-Shop:** < 331/3% recovery with > 50% Sash Cuttings.
- e) Reject: Insufficient recovery for Number-Three-Shop.

IX. Recovery Calculation:

a) Total cuttings (lineal/square inches) ÷ total piece (lineal/square inches) × 100.

X. Example:

a) 2x12x8 piece with 87% recovery, graded as Select Shop.

XI. Medium Cutting Example 1:

- a) Piece: 2 inches thick, 6 inches wide, 10 feet long.
- b) Valid medium cutting: 5 inches wide, 65 inches long.
- c) Invalid cutting: 4 inches wide, 50 inches long.
- d) Recovery: 45%, grade: Number Two Shop.

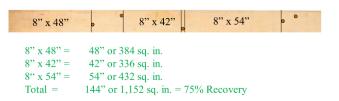
$2'' \times 6'' \times 10' = 720 \text{ sq. in.}$



XII. Medium Cutting Example 2:

- a) Piece: 2 inches thick, 8 inches wide, 16 feet long.
- b) Valid cuttings: 8 inches wide, lengths of 48, 42, and 54 inches.

$2'' \times 8'' \times 16' = 192$ lineal inches or 1,536 sq. in.



c) Recovery: 75%, grade: Select Shop.

XIII. Sash Cutting Example:

- a) Piece: 2 inches thick, 4 inches wide, 8 feet long.
- b) Full-width cuttings not possible due to wane.
- c) Valid sash cutting 2½ inches wide, full length.
- d) Recovery: 62%, grade: Number Three Shop.
- e) Note: Minimum 50% sash cuttings required for Number Three Shop.

