

**IMPORTANT**—Register Early. Because of the individual attention required for the workshop, class size will be limited. Reservations will be accepted on a first come, first served basis.

## Estimating 1- 2 - 3

Students choose which days to attend - Day 1 & 2 or Day 2 & 3 or All three days.

### Class Dates & Locations

**Omaha, Nebraska**  
December 11-13, 2018

*\*\* Check the NLA website for additional classdates & locations. \*\**

### Class Hours

8 am - 5 pm each day

### Instructor

Casey Voorhees is the Executive Director for the Western Building Materials Association. He has taught this program across the country for many LBM associations. With over 20 years experience leading the program, Casey understands the skills needed to provide your customers with an accurate take-off and good customer service.

*\*\*Please Note – If students are not familiar with interpreting blueprints, using scales and general construction terminology they must take Estimating 1 -Introduction to Residential Construction and Blueprint Reading prior to attending Estimating 2 & 3. Estimating 3 cannot be taken as a stand-alone class.*

2018-Aug-27

### **Estimating 1** (Day 1)

#### **Introduction to Residential Construction and Blueprint Reading**

With an emphasis on how products sold everyday are used on the jobsite, participants will become familiar with residential construction processes, industry terminology, interpreting house plans and using scales.

Topics covered include:

- Product applications from foundation through finish
- Construction definitions and industry terminology
- Lumber grades and span tables
- Building material math – board footage, square footage and applying conversion factors
- Blueprint reading
- Using architectural and layout scales
- Estimating decks and railing

**Who Should Attend?** Any sales personnel working with contractors and DIY'ers will benefit, as well as those needing core level training to attend the Residential Material Take-Off workshop.

### **Estimating 2** (Day 2)

#### **Basic Residential Material Take-Off**

This session will lead attendees through the process of completing a material take-off of residential structures. Emphasis is placed on developing a consistent method for measuring and applying formulas to produce an efficient take-off.

Attendees will receive hands-on experience working on an actual set of working drawings. Instruction will include various construction methods and estimating formulas while working on a basic home design with a trussed gable roof.

Topics covered include:

- Floor Framing
- Wall Construction
- Roof System
- Siding & Exterior Trim

**Who Should Attend?** Contractor sales personnel, inside sales support and others required to understand the fundamentals of residential construction and calculating quantities.

### **Estimating 3** (Day 3)

#### **Advance Residential Material Take-Off**

The workshop will progress beyond basic house design and focus on some of the more difficult areas of completing framing take-offs including:

Topics covered include:

- Insulation & Wallboard
- Irregular floor and roof layouts
- Intersecting roof lines with over-framing
- Stick-framed roofs including hip, valley and jack rafters
- Multi-pitched roofs
- Vaulted walls and ceilings, rake framing
- Additional time will be included for Doors, Windows and Millwork.

**Who Should Attend?** Contractor sales personnel, inside sales support and others required to understand more difficult residential construction and calculating quantities of doors, millwork, & windows.

# Northwestern Lumber Association Professional Development Program

## Estimating 1-2-3

**\*\*Please Note – If students are not familiar with interpreting blueprints, using scales and general construction terminology they must take Estimating 1 -Introduction to Residential Construction and Blueprint Reading prior to attending Estimating 2 & 3. Estimating 3 cannot be taken as a stand- alone class.**

### Price Per Person

	NLA member	Regular
Day 1 & 2	\$495	\$745
	\$470 3 or more	NA
Certificate Enrollees	\$455	NA
Day 2 & 3	\$495	\$745
	\$470 3 or more	NA
Certificate Enrollees	\$455	NA
All Three days	\$695	\$945
	\$670 3 or more	NA
Certificate Enrollees	\$655	NA

Included in your registration fee is the course manual, set of blueprints, architectural scale and joist/truss layout scale. Lunch is also included in your fee. Hotel accommodations are not included. Information on a discount room block is listed to the right. **Attendees are required to bring a calculator and pencils.**

### Date & Location Information

**Omaha, NE - December 11-13, 2018**

Class will be held at the Holiday Inn Downtown Omaha  
-1420 Cuming St, Omaha, NE 68102

Attendees are responsible for booking their own hotel room. A hotel block has been set up at the Holiday Inn for December 10-12-13. Call 402.341.0124 and ask for the Northwestern Lumber Association block rate of \$99 or \$109 + taxes. **The block expires 11-16-18.**

**Visit the NLA website at [www.nlassn.org/page/pd](http://www.nlassn.org/page/pd) for additional class dates & locations.**



Online Registration Available  
at [www.nlassn.org](http://www.nlassn.org)

Questions? Contact Connie Johnson, Director of Professional Development (763) 595-4045 or [cjohnson@nlassn.org](mailto:cjohnson@nlassn.org).

Attendee Name	Class Location	Estimating 1	Estimating 2	Estimating 3	Enrolled in Certificate/ Diploma Program (Yes/No)	Price
TOTAL DUE:						\$

Company Contact \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

### Payment Options

- Credit Card
  - Mastercard
  - Visa
- Check

### Credit Card Information

Name on Card \_\_\_\_\_

Card # \_\_\_\_\_ Expiration Date \_\_\_\_\_ CSV-CODE \_\_\_\_\_

Billing Address \_\_\_\_\_  
(if different than above)

Signature \_\_\_\_\_ Date \_\_\_\_\_

**If you do not receive an email confirming your registration, please contact the NLA office.**

**Cancellation Policy:** Substitutions are accepted at any time for individual classes. (no substitutions allowed for certificate/diploma registrations) To receive a full refund, cancellation must be received by NLA 14 days prior to the class. Cancellation requests received between 4 and 13 days before the class will be subject to a 50% administration fee. No refunds will be given for cancellations received 3 business days or less prior to the class or for "no shows".