



Level 2 Training School – Advanced Splicing Finger Splice 4-Day General Overview

Day-1

8:15 am to 8:30 am

Welcome/Opening Comments/Introductions

- Overview of Course Objectives

8:30 am to 9:30 am

Conveyor System & Belting – Classroom Session

- Components - Pulleys, Lagging and Drive Slip
- Belt Construction – Tension in the system vs splice life
- Function – Operational Forces & Splice Design (Finger vs Step)

9:30 am to 9:45 am

Break

9:45 am to 10:00 pm

Basic Vulcanized Splicing Overview – Classroom Session

- Vulcanized Splice Types
 - Step Splices – General splice design & overview
 - Finger Splices – General splice design & overview
 - Steel Cord Splices - ST splice layout (Stage I & II)

10:00 am to 12:00 pm

Finger Splicing Process (Straight Warp & Multi-ply Belting) – Classroom Session

- Finger Splice Process
 - Splice Station – Choosing the location to make the splice
 - Clamping – Where to place the clamps & safely securing them
 - Pulling Slack – Why DOT is important and safely pulling the belt
 - Center Line & Squaring Belt End
 - Finger Splice Layout (Bias vs Square)
 - Finger Template Use
 - Finger Cutting with Power Saw
 - Cover Skiving Technique



- Splice Material Types, Shelf Life and Storage
- Splice Assembly (Off-set Breaker & Noodle Gun)
- Vulcanizer Set-Up and Operation
- Curing & Cooling Process

12:00 pm to 1:00 pm

Lunch

1:00 pm to 3:45 pm

Finger Splicing Process (Straight Warp 400 PIW) – Workshop Session

- Center Line – Why to not use belt edge for squaring & finding center
- Bias – Yes or No. How to calculate and understand left vs right hand lead
- Splice Length – Reading the splice table and understanding pull-back
- Finger Size – Width vs length ratio and use of pull-back
- Splice DOT – Finding the proper outside (edge) finger direction
- Finger Layout – Using the template vs hand layout
- Finger Cutting – Safe use of the power saw vs hand cutting
- Finger Striping – Removing the covers with skiver safely vs pulling by hand

3:45 pm to 4:00 pm

Questions and Finish the Day – Classroom Session

Day-2

8:15 am to 8:30 am

Review / Discuss Objective

8:30 pm to 12:00 pm

Finger Splicing Process (Straight Warp 400 PIW) – Workshop Session

- Buffing Covers – Why buff the rubber cover bevel area and why not the fabric
- Dry Fitting – Aligning the splice ends together with CL and using pull-back
- Holding Splice Ends – Nailing vs clamping the splice ends
- Cleaning – Using cleaning solvent and it's proper and safe use
- Primer – Where and when to use primer, applying it and drying
- Cement – Where to use and why, number of coats needed, drying
- Splice Materials – Which type, gauge vs belt, placement, size to cut
- Laying Splice Up – Using off-set breaker, finger fitting, noodle gun, wrapping breaker
- Pro vs SVP – How to decide which vulcanizer, why more curing length is needed
- Edge Bars – Sizing (width x gauge), filling press, padding how to gauge



- Press Set Up – Safe, proper operation of Almex Vulcanizer (Pro & SVP)
- Curing (1) – Using flow time and calculating cure time
- Curing (2) – Cure temperature based on belt splice material type
- Curing (3) – Cool down temperature, pressure vs boiling point
- Finishing – Trimming edges, buffing over flow, QC Durometer testing

12:00 pm to 1:00 pm

Lunch

1:00 pm to 3:45 pm

Finger Splicing Process (Repeat) – Workshop Session

3:45 pm to 4:00 pm

Questions and Finish the Day – Classroom Session

Day-3

8:15 am to 8:30 am

Review / Discuss Objective

8:30 pm to 12:00 pm

Finger Splicing Process (Repeat) – Workshop Session

12:00 pm to 1:00 pm

Lunch

1:00 pm to 3:45 pm

Finger Splicing Process (Repeat) – Workshop Session

3:45 pm to 4:00 pm

Questions and Finish the Day – Classroom Session

Day-4

8:15 am to 8:30 am

Review / Discuss Objective

8:30 pm to 12:00 pm

Finger Splicing Process (Straight Warp 400 PIW) – Workshop Session

- Finish any splices
- Prep them for testing



12:00 pm to 1:00 pm

Lunch

1:00 pm – 2:30 pm

Splice Testing & Analysis – *Workshop & Classroom Session*

- Test & Grade Splices Made in Class
- Testing the Effect Primer makes (bare fabric samples)
- Understanding Splice Analysis and Testing**
- Adhesion Testing (T-Peel)
- Crosscut Profile
- Durometer Testing (splice vs belt)
- Applying Splice Failure Analysis Process
- School Review Questions

2:30 pm – 3:00 pm

Student Testing - *Classroom Session*

- Participant Written Testing
- Participant Review of School

3:00 pm

Finish the Class - *Classroom Session*

- Certifications and Test Results can be downloaded from the Almex website.

FYI – For those booking flights out after the class on day 4. Look at flights leaving after 6 pm.

**Customer can provide failed splices for failure analysis process learning.



Hotel and Restaurants

Many hotel accommodations are possible near the school. I would recommend either one of these two.

Hilton Garden Inn Atlanta East/Stonecrest
7890 Mall Ring Rd, Lithonia, GA 30038
Phone: (678) 526-1000

Holiday Inn Express & Suites Atlanta East
7846 Stonecrest Square
Lithonia GA 30038
Phone: (678) 325-4830

FYI - Near this hotel is a large mall and a number of restaurants around the mall.

Transportation from Airport

You can take a cab at \$70+ or an airport shuttle. This airport shuttle company travels to Lithonia where the hotel is located for \$50. However, each additional passenger is \$10, so if more than one of you take the same shuttle it will save money. You can book a reservation on the website. Airport Metro Shuttle <http://www.airportmetro.com/>

Transportation to School

It is not Almex's responsibly to make sure everyone gets from the hotel to the classroom and back each day. But, some of the other class members will have vehicles and may be available for helping out if you need a ride. The common way students get around is the use of Uber or Lyft.

There is a parking lot on the south side of the Almex building with a door that goes directly into the classroom area.

Class Breaks and Lunch

Almex will provide lunch each day with drinks and snacks at breaks. If you have special dietary needs please let us know.

Almex Contact and School Location

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Decatur GA. 30035
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