

CONVEYOR SOLUTIONS ENGINEERING

CSE Professional Training Program

A structured program to develop confident,
calculation-ready Conveyor Solutions Engineers

Presented by Michael Collins

12
Modules

1
Capstone

Complete
Program

Twelve modules. One capstone. A complete methodology.

FOUNDATION | Modules 1-3

Site visits, reading drawings, understanding the product mix. How to observe before designing.

METHODOLOGY | Modules 4-7

The four-layer approach. Volume and rate. Belt speeds. Gap calculations. The core engineering sequence.

EQUIPMENT | Modules 8-10

Sorter selection, merge design, accumulation, transfers. How to select and specify equipment correctly.

PROPOSAL | Modules 11-12

Scope writing, limitations, exclusions, open items. What makes a proposal defensible and priceable.

CAPSTONE | Riverside Scenario

A full real-world scenario from site visit through completed proposal. Evaluated against a published rubric.

The program is complete. Every document exists today.

12 Training Modules

Complete curriculum from site visit fundamentals through proposal writing. Answer key included.

Instructor Guide

Facilitator notes, common student errors, and field context for every module.

Flow Diagram Guide

Interactive reference showing how the four engineering layers build on each other.

Sortation Selection Tool

Built directly from the Hytrol white paper matrix. Filters to the right sorter for any product mix.

Calculation Logic Guide

Plain-English explanation of every formula in the Product Spec Calc with worked examples.

Capstone + Assessment Rubric

Full Riverside scenario with student and instructor versions. Objective pass/fail rubric included.

THE PLAN

Six to eight weeks. Structured. Measurable.

Weeks 1-2

Foundation

Weeks 1-2

Weeks 3-4

Engineering

Weeks 3-4

Weeks 5-6

Proposal Work

Weeks 5-6

Weeks 7-8

Capstone

Weeks 7-8

Foundation

Modules 1-4. Site visits, drawings, product mix, the four-layer methodology. Establish the mental model.

Engineering

Modules 5-8. Volume, rate, belt speeds, gap calculations, sorter selection. The calculation sequence.

Proposal Work

Modules 9-12. Equipment specification, scope writing, limitations, exclusions. What a complete proposal looks like.

Capstone

Full Riverside scenario. Student produces a complete proposal. Evaluated against the published rubric.