ite PARTNERS | Building Operating Systems for Scalable Manufacturing

OPERATIONAL LAB EXCELLENCE

ITE TOOLBOX DISCOVERY SESSION 002

From a flat BoM to a smart production blueprint

Your bill of material is the heart of everything downstream — routings, scheduling, purchasing, costing — yet the one your design tool hands you is a flat parts list that knows what a cabinet is made of, but nothing about how you build it.

On its own, that flat list leaves gaps everywhere it matters — purchasing can't see true demand, scheduling can't sequence the work, and production is left guessing. Join us for a live session to see how a generated BoM becomes an enriched, structured blueprint — one that carries the sequence, scheduling, and supply-chain intelligence your parts and assemblies need to move through production on their own.

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Who should attend?

This session is designed for manufacturers whose tech stack includes Cyncly's Insight, and who are asking questions like:

- **What if enriching a BoM for your machines and process took one click instead of days of manual setup?**
- **What if every part and assembly carried its own instructions for how and when it gets built?**
- **What if a single BoM generated your production and purchasing demand — make and buy — automatically?**



What we'll explore together

This is the heart of the ITE methodology: progressively enriching a single bill of material from a flat engineering list into a production-ready blueprint. We'll walk the three levels of enrichment:

Engineering BoM (eBoM) — the Flat Starting Point

Whether an engineer builds a one-off in Construct, or Construct runs behind Insight's configuration to return a construction BoM, what you get first is a flat, as-engineered parts list — left side, right side, top, bottom, door. It says what the product is made of, but nothing about how it's built.

Manufacturing BoM (mBoM) — Enriched for Production

The heart of managing production is a multi-level BoM. We'll show how ITE's operating group logic, templates and item families enrich that flat list into meaningful assemblies and subassemblies — drawer boxes, fronts, toekicks — that drive the downstream blueprint. This layer is plant- and process-agnostic, and it's pure Industry 4.0: parts know their own characteristics (thickness, edgebanding, drilling, machining, profile), machines know their capabilities, and the system applies your rules to match them automatically.

Supply Chain BoM (eBoM) — Made for Your Plant

Once you know the market, catalog, and plant, the BoM is restructured one more time from a supply-chain point of view — adding suppliers, processes, and make-or-buy decisions. This is where you smooth capacity: outsource a high-volume, long-lead item, or keep a short-lead custom job in-house. It generates time-phased production and purchasing demand across your internal (make-to-order/stock) and external (purchase-to-order/stock) supply chain — and re-explodes cleanly whenever you change plants, processes, or automation.



About our Operational Excellence Lab

We've designed the Operational Excellence Lab as a collaborative, hands-on space to explore the Art of the Possible in your business transformation together.

In the lab, we:

- Explore end-to-end automation — from order to cash
- Run hands-on workshops grounded in real operational scenarios
- Collaborate with partners like Cyncly, imos AG, machine manufacturers, and universities to push industry innovation

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