



Virtual Extrusion Training

Presented By: Extrusion Solutions North, LLC

Tim Groth has 40 years of hands-on extrusion experience specializing in **Design for Extrudability, Tooling Design, Tooling Development, Trouble Shooting, Material Selection, Equipment Selection, Plant Set-up, Training** of engineers, set up technicians and operators while practicing **Lean Manufacturing** principles.

- Set up Technician MN Plant 1984-1994
- Process Improvement MN and MO Plants 1994-2000
- Production Mgmt. MN Plant 2000-2006
- Technology Mgmt. of extrusion tooling and process MN, CA, GA 2006-2021
- Technology Mgmt. of application engineering 2006-2021
- Extrusion Technology Director, NC Plant 2017-2021
- Penn College of Technology Adjunct Extrusion Instructor 2022-Present
- President Extrusion Solutions North, LLC 2021-Present
- Extrusion conference / seminar speaker
- 40 years of technical hands-on experience working in the extrusion plastics industry

Deliverables:

- Provide training in 4-hour blocks on four consecutive Monday mornings @ 7:00 a.m. Central Time via teams
- Training offered to operators, engineers, purchasing, tool makers, sales, managers, and others
- **Curriculum: Basic extrusion training, processing science, material science, process troubleshooting, tool design, regrind use, foam technology including tool design, Lean tooling, application design, sheet and laminating processing and tooling heat transfer**
- Provide a proprietary copy of Extrusion Solutions North, LLC training workbooks
- Extrusion Solutions North, LLC training certificates available upon request
- Start Date: February 2nd, 2026, and runs for four consecutive Mondays in total
- Note: This is an open class and not exclusive to any one business. Private virtual or onsite training is available upon request. Reach out for more information

Specifics/Cost:

- Extrusion training per plant: Four 4-hour classes, 16 hours total = \$4,800 Total for all four classes
 - Fifteen people per plant maximum
- Individual training: Four 4-hour classes, 16 hours total = \$1,500 total for all four classes per individual

RSVP and PO required by 1/9/26, to hold a spot in the class 50% down payment due 1/23/25 **Terms: Net 10 Days**

Fifty percent down payment required and final payment due according to the terms listed above.

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