

Our list of Paulson Certification Seminars taught by expert instructors in a city near you. In addition, all Paulson seminars are available for customized instruction at your plant.

ProMolder 1™ 4 Days

January	15-18	Irvine CA
February	05-08	Austin TX
February	25-28	Charlotte NC
March	12-15	Phoenix AZ
April	15-18	Chicago IL
May	14-17	Minneapolis MN
June	25-28	Rocky Hill CT
August	20-23	Germantown WI
September	17-20	Grand Rapids MI
October	22-25	Toronto Canada
November	05-08	Phoenix AZ

NEW! Profitable Molding for Managers 2 Days

January	29-30	Austin TX
June	12-13	Germantown WI
December	04-05	Charlotte NC

ProEx 1™ 4 Days

March	05-08	Detroit MI
September	24-27	Charlotte NC

ProMolder 2™ 5 Days

February	18-22	Los Angeles CA
March	25-29	Charlotte NC
May	06-10	Toronto Canada
September	23-27	Chicago IL
October	07-11	Germantown WI
November	18-22	Charlotte NC

ProEx Blow Molding™ 3 Days

April	23-25	Minneapolis MN
November	12-14	Grand Rapids MI

ProMolder 3™ 5 Days

April	08-12	Charlotte NC
July	15-19	Toronto Canada
December	09-13	Rocky Hill CT

NEW! Watch for our newest Seminar in 2019 on **Thermoforming** taught by industry expert **Mark Strachan**.



Note: Please note that this schedule is subject to change. Please call Paulson at 860-526-3099 to confirm dates and locations prior to making travel arrangements.

***Discounts available:** Any company sending multiple attendees from one company to the same class is eligible for \$100 off for every additional person from the company who attends. **Visit the Paulson website at www.paulsonplasticsacademy.com for additional terms and conditions or call us at 860-526-3099 for more information.**

ProMolder 1:

This Course is For: Technicians, Setup, Quality Personnel and anyone with a need to improve their skill and understanding of injection molding.

Attendance Pre-requisites: None. There will be a short pre-assessment quiz before the class begins.

Course Summary: ProMolder 1 is an ideal class for anyone who wishes to understand the fundamental principles of injection molding or wants a scientific background on the molding process. There are no pre-requisites for this class and it will cover the following topics with a written test at the end for certification.

- Molding Economics
- What are Plastics?
- The Molding Machine
- Molding from the Plastic's Point of View
- Mold Fundamentals
- Machine Operating Controls
- Molded Part Defects - Causes & Solutions
- Injection Molding Simulation with SimTech

The course is 4 days and includes a machine demonstration reviewing basic machine operations on either an Injection Molding Machine or the SimTech simulator.

Certification: Paulson training programs has an excellent reputation for developing highly qualified injection molding personnel who are sought after by the industry. To maintain this quality we test each student at the end of the course with a written exam. Grades above 85% will earn a Gold Certificate of Achievement; 75% - 85% a Silver Certificate of Achievement; all others earn a Certificate of Completion.

Cost to attend: \$1,695*

ProMolder 2: A five day classroom and hands-on injection molding technology course

This course is for: Technicians, Setup Personnel, Lead Persons, Foremen, Process Engineers, and others who are, or will become, key production personnel in the future. *This course is designed for production personnel who:*

1. Need to understand the relationship of the molding machine controls to the plastic conditions in the mold and the resultant molded part properties.
2. Will benefit from practice in setting machine controls, observing the results, and solving molded part problems.

Attendance Pre-Requisites: A prerequisite to take this course is satisfactory completion of the *ProMolder 1 course or the equivalent* Paulson CD or web-based training. Others having molding experience may attend this course by passing a pre-assessment test provided by Paulson.

Course Summary: ProMolder 2 is a two part course. The first part explains the plastic properties and behavior that affects part quality, the scientific basis and the technology of molding. This is followed by a detailed analysis of common molded part defects, their causes and solutions (attendees may bring molded part examples their plants for analysis). The second part is hands-on molding practice using both the Paulson injection molding simulator* to provide each student hands-on practice in setting and observing the effects of each machine control on the plastic and the molded parts and problem-solving. This is followed by a molding laboratory on an actual machine to demonstrate some of the information previously taught and shown.

Certification by Paulson: Paulson Training Programs has an excellent reputation for developing highly qualified injection molding personnel who are sought after by the industry. To maintain this quality we test each student at the end of the course with a written exam. Grades 90% and above will earn a Gold Certificate of Achievement; 80% - 89% a Silver Certificate of Achievement; all others earn a Certificate of Completion.

Class size – Limited to 16

Tuition: \$2,295*

ProMolder 3: This is an intensive five-day hands-on injection molding technology course that includes time with Paulson's innovative injection molding simulator SimTech™. This is Paulson's most advanced scientific injection molding course.

This course is for: Technicians, Setup Personnel, Lead Persons, Foremen, Process Engineers, and others who are, or will become, key production personnel in the future. *This course is designed for production personnel who:*

1. Need to understand the relationship of the molding machine controls to the plastic conditions in the mold and the resultant molded part properties.
2. Will benefit from practice in setting machine controls, observing the results, and solving molded part problems.

Attendance Pre-Requisites: A prerequisite to take this course is satisfactory completion of the *ProMolder 1&2 courses or the equivalent Paulson CD/DVD or web-based training.* Others having molding experience may attend this course by passing a pre-assessment test provided by Paulson.

Course Summary: ProMolder 3 is a rigorous week-long course incorporating 80% of the time spent on machines and utilizing Paulson's injection molding simulator SimTech™. Topics covered include detailed explanations of plastic properties and behavior that affects part quality, the scientific basis and the technology of molding. This is followed by a detailed analysis of cycle optimization and advanced problem solving including in-depth discussions on common molded part defects, their causes and solutions (attendees may bring molded part examples from their plants for analysis). The majority of the class will be spent practicing classroom concepts on actual injection molding machines plus practice using SimTech™ in setting and observing the effects of each machine control on the plastic and the molded parts and problem-solving.

Certification by Paulson: Paulson Training Programs has an excellent reputation for developing highly qualified injection molding personnel who are sought after by the industry. To maintain this quality we test each student at the end of the course with a written exam. Grades 90% and above will earn a Gold Certificate of Achievement; 80% - 89% a Silver Certificate of Achievement; all others earn a Certificate of Completion.

Class size – Limited to 16

Tuition: \$3,095*

Profitable Molding for Managers: a 2-day seminar teaching the business of Profitable Molding for Managers

This course is for: Mid-level managers such as Molding Managers, Production Managers, Supervisors, and anyone else with production and quality responsibilities.

Course Summary: The primary focus is on identifying, monitoring and controlling the cost drivers of an injection molding plant. Cost drivers are those items which dictate how much profit is made.

Managers of molding plants are swamped daily with a myriad of issues, many of the “immediate” variety. Those daily fires can obscure the important metrics by which success will be measured and achieved.

A sampling of the important topics to be covered are:

What cost drivers should I be monitoring?

- Effective throughput
 - What does it mean?
 - How is it monitored?
 - What reports have the most meaning to the company’s success?
 - Production data collection tools
- Material conservation
- Labor content
- Material content
- Machine and mold maintenance
- Establishing machine rates
- Quoting plastic parts
- Daily report summary
- Earnings estimator
- Basic understanding of the injection molding process
- Teambuilding
- Basic Lean Manufacturing for a “Job Shop Environment”

Cost to attend: \$2,095*

ProEx 1

There is something in this seminar for every level of experience. Whether you are an extrusion operator or an extrusion engineer, novice or seasoned veteran, you will gain practical application and understanding with the principles taught in this seminar.

Course Summary: ProEx 1 is an ideal class for anyone who wishes to understand the fundamental principles of extrusion or wants a scientific background on the extrusion process. There are no pre-requisites for this class and it will cover the following topics with a written test at the end for certification. Grades above 85% will earn a Gold Certificate of Achievement; 75% - 85% a Silver Certificate of Achievement; 70% -74% a Certificate of Achievement; all others a Certificate of Completion.

- The Single Screw Extruder: Parts and Operation
- The Structure of Plastic Raw Materials
- The Characteristics of Plastics for Extrusion
- Effects of Pressure, Temperature, and Flow
- Optimizing Extruder Controls
- Safety, Pre-Start, and Start-up Procedures
- Steady-State Operation, Shutdown, and Maintenance Procedures
- Single Screw Extruder Troubleshooting
- Plant Management Topics
- Twin & Sheet Extrusion Modules

Each day there is time set aside for team discussion, problem solving, and one-on-one with the instructor.

Cost to Attend: \$1,695*

ProEx Blow Molding

ProEx 1 Blow Molding is for anyone who needs to understand blow molding technology. The course teaches the fundamentals of extrusion blow molding, including all of the knowledge that personnel must understand in order to make informed decisions on the production floor, and delivers advanced concepts using a scientific blow molding methodology. ***ProEx Blow Molding*** offers Certification on Day 3. Three levels of Certification are awarded based on final scores – Gold level, Silver level and a Certificate of Achievement. Paulson Certification is the recognized standard in the plastics industry.

The main topics covered during this intensive 3-day seminar include:

- The Blow Molding Process and Equipment
- Plastic Behavior
- Extrusion Blow Molding Operating Controls
- Operating Procedures – Start-Up, Operation & Shutdown
- Part Quality and Problem Solving
- Parison Programming

Each day there is time set aside for team discussion, problem solving, and one-on-one with the instructor.

Cost to Attend: \$1,595*.