PLANT MANAGEMENT ACADEMY

PMA INC. · TORONTO · NEW YORK

EXECUTIVE EDUCATION · AI · INDUSTRY 5.0

Program Catalog

Training for Modern Manufacturing Leaders in the Age of AI

2027 EDITION · VERSION 002

A complete 17-course professional development program for the people who run the plant floor — built from real manufacturing practice, now extended for the era of artificial intelligence and the road toward superintelligence.

WHAT THE PROGRAM COVERS

Operations · Maintenance · Reliability · Quality · Safety · Leadership
Industry 4.0 & 5.0 · AI-Driven Operations · Cybersecurity · Executive Finance · Warehousing · Continuous Improvement

17	25+	220+	25
ONLINE COURSES	YEARS OF PRACTICE	GRADUATES TRAINED	INDUSTRY PARTNERS

Online	Self-Paced	24 Hours
100% · ANY DEVICE	24/7 ACCESS	TO ACTIVATION

plantmanagementacademy.com

NEW IN V002 · PMEX-123 FINANCE · PM-124 CYBERSECURITY

01 · ABOUT THE ACADEMY

Built for the Floor, Not the Classroom

The Plant Management Academy (PMA) delivers practical, industry-aligned training for supervisors, managers, engineers, and the next generation of plant leaders. Our curriculum is built around real manufacturing environments and concentrates on the skills that move the metrics that matter: uptime, quality, safety, cost, and leadership capability.

PMA draws on more than 25 years of hands-on experience across aerospace, automotive, and industrial manufacturing. Every course is designed to be applied on Monday morning — on the floor, in the planning room, and in the daily conversations that keep a plant running.

25+	220+	17	25
YEARS OF EXPERIENCE	GRADUATES TRAINED	COURSES OFFERED	INDUSTRY PARTNERSHIPS

What We Stand For

Excellence

We hold our training to the highest standards in plant management education.

Innovation

We bring forward-looking thinking and modern practice — including AI — into every aspect of operations.

Integrity

We value honesty and transparency in our training and in how we work.

Who Should Enroll

Built for supervisors and managers looking to advance their careers and sharpen their impact — including team leads, maintenance and reliability staff, planners and schedulers, quality and operations managers, engineers, plant leaders, and emerging leaders preparing for their first management role. New in this edition: senior operations executives, plant directors, and business unit leaders seeking financial and strategic fluency.

Program Highlights

- 17 complete online courses spanning the full plant-management discipline
- Self-paced learning with 24/7 access on desktop and mobile
- A free, printable electronic certificate with every course
- Optional professionally printed certificates, mailed to you
- Automatic 10% multi-course discount at checkout
- Two stackable certificate pathways — Operational Excellence and Master
- Specialist credentials in AI-driven operations (CAIPO), industrial cybersecurity (CICDP), and executive financial leadership

02 · THE INTELLIGENCE ROADMAP

From Industry 4.0 to Superintelligence

Manufacturing is moving through successive waves of intelligence. Plants are connected and data-rich today; AI is already predicting failures and inspecting quality; and the industry is beginning to plan for autonomous, agentic operations and, further out, superintelligence (SI) — AI that could exceed human capability across most domains. Whatever pace that takes, the leaders who guide it will need the same foundations: trustworthy data, secure systems, sound financial judgement, and people who are ready to work alongside intelligent machines.

STAGE 1	STAGE 2	STAGE 3	STAGE 4
Connected Plant	**AI-Augmented Plant**	**Autonomous Plant**	**SI-Ready Leadership**
Industry 4.0: sensors, MES, ERP and cloud data give real-time visibility.	Industry 5.0: predictive maintenance, AI quality control, and human-centered intelligence.	Agentic AI makes and executes operating decisions inside defined guardrails.	Governance, oversight, and capital strategy for a world of superintelligent systems.
PMA COURSES	PMA COURSES	PMA COURSES	PMA COURSES
PM-101 · PM-112 · PM-110	**PM-121 · PM-117 · PM-102**	**PM-124 · PM-122 · PM-106**	**PMEX-123 · PM-111 · PM-103**

Outlook, not a course claim. *Stages 3 and 4 describe where industry thinking is heading, not a promise that PMA courses teach superintelligence. The mapped courses build the capabilities — data integrity, cyber resilience, risk and safety culture, financial judgement, and leadership — that any intelligent-plant strategy depends on.*

Five Principles for the Intelligent Plant

1	**Data you can trust**	AI is only as good as the data behind it — build clean, secured, well-governed production data.
2	**Humans in the loop**	Keep skilled people accountable for safety, quality, and judgement as automation grows.
3	**Security by design**	Treat every connected system as a safety and uptime risk, not just an IT concern.
4	**Capital with discipline**	Back AI and automation with board-ready business cases and measurable ROIC.
5	**Knowledge that compounds**	Capture expertise now so people and machines can both learn from it.

03 · WHAT'S NEW

New in Version 002

Version 002 grows the program from 15 to 17 courses and adds two new specialist tracks, bringing the catalog in line with the full course list at plantmanagementacademy.com.

NEW · DIGITAL SECURITY & DATA

PM-124

Industrial Cybersecurity and Data Protection

Credential: PMA Certified Industrial Cybersecurity and Data Professional (CICDP)

$89 USD

NEW · EXECUTIVE FINANCE & STRATEGY

PMEX-123

Advanced Financial Acumen & Capital Allocation for Manufacturing Executives

Credential: PMA Executive Certification in Financial Leadership

$395 USD

Also Featured for 2027

PM-121	AI-Driven Plant Operations — predictive maintenance, real-time quality control, and the CAIPO designation.
PM-122	Root Cause Analysis & 8D Mastery — eliminate recurring defects and cut scrap with 8D and CAPA methods.
PM-117	Updated with a bonus chapter on AI for knowledge capture, documentation, searchability, and training.

What changed from the previous edition: two new courses (PM-124, PMEX-123), two new tracks (seven in total), a refreshed program total of $1,639 list, new suggested bundles, and a new AI and superintelligence roadmap.

04 · CREDENTIALS

Certificates & Pathways

Every PMA course leads to a recognized credential — and individual courses can be stacked into two higher-level certificates that signal advanced capability to your organization.

PMA Professional Development Certificate

Included with every course. On completion you receive a free, printable electronic certificate. Optional hard copy: a professionally printed certificate can be mailed to you for $35 USD, shipping included.

Stackable Certificate Pathways

Complete a defined set of courses and earn a stackable PMA credential. Courses count toward a pathway in any order.

PATHWAY 1 · 3 COURSES

PMA Operational Excellence Certificate

Recognizes mastery of Lean, planning, scheduling, and continuous-improvement fundamentals.

- **PM-105 Complex Production Planning & Control**
- **PM-102 Maintenance Planning & Scheduling**
- **PM-106 Operational Excellence & Continuous Improvement**

List $147 · $132.30 with 10% discount

PATHWAY 2 · 5 COURSES · TOP CREDENTIAL

PMA Master Certificate

PMA's highest credential — advanced capability across operations, maintenance, reliability, safety, and leadership.

- **PM-105 · PM-102 · PM-106 (Operational Excellence)**
- **PM-103 Reliability & Safety**
- **PM-111 Leadership Mastery**

List $285 · $256.50 with 10% discount

Course-Specific Credentials

Selected courses carry their own specialist credential in addition to the PMA Professional Development Certificate.

COURSE	CREDENTIAL
PM-120	PMA Effective Supervision Certificate
PM-119	Digital PMA Safety Certificate of Completion
PM-121 NEW	PMA Certified AI-Driven Plant Operations Professional (CAIPO)
PM-122 NEW	Digital certificate plus a printed Plant Management Development Certificate
PM-124 NEW	PMA Certified Industrial Cybersecurity and Data Professional (CICDP)
PMEX-123 NEW	PMA Executive Certification in Financial Leadership (digital and printed)
PM-118	Digital PMA Certificate of Completion

05 · CURRICULUM

The Courses

17 focused courses in seven tracks, each self-paced and fully online, built from real plant-floor practice. Prices are per participant in USD, taxes included.

CODE	COURSE TITLE	CREDENTIAL	PRICE
FOUNDATIONS & TECHNOLOGY			
PM-101	Foundations of Plant Management	Professional Dev.	**$49**
PM-112	The Evolution of Manufacturing: Industry 1.0 → 5.0	Professional Dev.	**$49**
PM-121	AI-Driven Plant Operations: Adopting Smart Technologies for Manufacturing Excellence NEW	CAIPO	**$149**
OPERATIONS & PLANNING			
PM-102	Maintenance Planning & Scheduling	OpEx · Master	**$49**
PM-105	Complex Production Planning & Control	OpEx · Master	**$49**
PM-106	Operational Excellence & Continuous Improvement	OpEx · Master	**$49**
RELIABILITY, SAFETY & QUALITY			
PM-103	Reliability & Safety	Master	**$49**
PM-114	ISO 9001 Implementation for Manufacturing Leaders	Professional Dev.	**$90**
PM-119	Manufacturing Workplace Safety – All Employees	Safety Certificate	**$49**
PM-122	Root Cause Analysis & 8D Mastery NEW	Printed certificate	**$189**
WAREHOUSING & INVENTORY			
PM-110	Modern Warehousing & Inventory Control	Professional Dev.	**$98**
PM-118	Advanced Inventory Control Strategies	Certificate of Completion	**$49**
LEADERSHIP & KNOWLEDGE			
PM-111	Leadership Mastery: Growth, Influence, Respect	Master	**$89**
PM-117	Knowledge Transfer & Mentorship Systems UPDATED	Professional Dev.	**$89**
PM-120	Shop Floor Leadership for Supervisors	Effective Supervision	**$59**
DIGITAL SECURITY & DATA			
PM-124	Industrial Cybersecurity and Data Protection NEW	CICDP	**$89**
EXECUTIVE FINANCE & STRATEGY			
PMEX-123	Advanced Financial Acumen & Capital Allocation for Manufacturing Executives NEW	Executive Certification	**$395**

All 17 courses — list total: $1,639 USD
$1,475.10 with the 10% multi-course discount

OpEx = Operational Excellence Certificate · Master = PMA Master Certificate · CAIPO = Certified AI-Driven Plant Operations Professional · CICDP = Certified Industrial Cybersecurity and Data Professional

COURSE DETAIL · TRACKS 1 & 2

Foundations, Technology & Operations

FOUNDATIONS & TECHNOLOGY

PM-101
$49
USD

Foundations of Plant Management AI-ENABLED

An orientation to the systems that run a modern plant. Understand what ERP really is, how AI is enhancing ERP capability, the platforms used across industry today, and why cloud-based ERP matters for everyday operations and digital transformation.

PM-112
$49
USD

The Evolution of Manufacturing: Industry 1.0 → 5.0

Trace the full arc of manufacturing — from mechanization and mass production through automation and digitalization to the human-centered intelligence of Industry 5.0.

PM-121
$149
USD

AI-Driven Plant Operations: Adopting Smart Technologies for Manufacturing Excellence NEW FOR 2027 AI

AI has arrived on the plant floor, reshaping how facilities are managed, monitored, and optimized — from predictive maintenance to real-time quality control. A clear, practical guide to how AI is transforming modern manufacturing, built for plant managers, operations managers, and plant leaders.

- **Awards the PMA Certified AI-Driven Plant Operations Professional (CAIPO) designation**

OPERATIONS & PLANNING

PM-102
$49
USD

Maintenance Planning & Scheduling

Master the planning and scheduling cycle that drives uptime: backlog management, preventive-maintenance optimization, weekly scheduling, and disciplined work execution.

- **Counts toward the Operational Excellence & Master certificates**

PM-105
$49
USD

Complex Production Planning & Control

A deep dive into production control for complex environments: MRP, demand forecasting, capacity planning, and advanced scheduling strategies.

- **Counts toward the Operational Excellence & Master certificates**

PM-106
$49
USD

Operational Excellence & Continuous Improvement

The core improvement toolkit in action — Lean, Six Sigma, Kaizen, 5S, and structured problem-solving — to eliminate waste, reduce variation, and sustain a culture of improvement.

- **Counts toward the Operational Excellence & Master certificates**

COURSE DETAIL · TRACK 3

Reliability, Safety & Quality

RELIABILITY, SAFETY & QUALITY

PM-103
$49
USD

Reliability & Safety

Build reliability and safety into daily operations. Covers reliability engineering, human factors, safety culture, and practical risk reduction.

- **Counts toward the Master Certificate**

PM-114
$90
USD

ISO 9001 Implementation for Manufacturing Leaders

A proven 90-day roadmap to a practical, audit-ready quality management system. Built for managers, production supervisors, and quality engineers, it improves consistency, reduces defects, strengthens documentation, and helps teams pass certification audits with confidence.

- **90-day implementation roadmap**

PM-119
$49
USD

Manufacturing Workplace Safety – All Employees

A comprehensive, facility-wide training program for every employee in a manufacturing environment. It builds a strong foundation in hazard recognition, safe work practices, and emergency preparedness — and emphasizes communication, reporting, and fitness for duty, the essentials of a strong safety culture.

- **Includes a digital PMA Safety Certificate of Completion · 10% group discount for organizations enrolling 10 or more employees**

PM-122
$189
USD

Root Cause Analysis & 8D Mastery NEW FOR 2027

Eliminating recurring manufacturing defects and reducing scrap by 30–50%. Learn to identify root causes, eliminate recurring defects, improve customer response times, and reduce scrap, rework, and quality costs using proven 8D and CAPA methodologies. Designed for plant managers, operations managers, quality professionals, engineers, and plant leaders.

- **Includes a digital certificate and a printed Plant Management Development Certificate**

COURSE DETAIL · TRACKS 4 & 5

Inventory, Leadership & Knowledge

WAREHOUSING & INVENTORY

PM-110
$98
USD

Modern Warehousing & Inventory Control

A practical course on warehouse and inventory performance: material flow, inventory accuracy, receiving and picking, warehouse optimization, and the digital tools that deliver real-time visibility.

PM-118
$49
USD

Advanced Inventory Control Strategies

For professionals managing materials, stock levels, and supply chain performance. Forecast demand, classify inventory, apply replenishment strategies, and use technology for accuracy — plus supplier integration, risk management, and continuous improvement.

- **Includes a digital PMA Certificate of Completion**

LEADERSHIP & KNOWLEDGE

PM-111
$89
USD

Leadership Mastery: Growth, Influence, Respect

A four-part leadership series that builds confidence, communication, influence, and team respect. Ideal for supervisors, team leads, and emerging leaders.

- **Four-part series · Counts toward the Master Certificate**

PM-117
$89
USD

Knowledge Transfer & Mentorship Systems UPDATED AI BONUS

A complete, plant-focused system for capturing tribal knowledge before it walks out the door — and building structured mentorship programs that get new engineers, managers, and leaders to full speed fast. Identify high-risk tacit knowledge, design mentor–mentee pairings, extract real troubleshooting logic, build a searchable knowledge repository, and certify competence through hands-on demonstration.

- **Bonus chapter: AI's role in accelerating knowledge capture, documentation, searchability, and training**

PM-120
$59
USD

Shop Floor Leadership for Supervisors

A practical, four-module program that turns experienced supervisors into confident floor leaders — daily production management, accountability, Gemba leadership, and communication that drives action.

- **Four modules · Includes the PMA Effective Supervision Certificate**

COURSE DETAIL · TRACKS 6 & 7 · NEW

Security, Data & Executive Finance

DIGITAL SECURITY & DATA

PM-124
$89
USD

Industrial Cybersecurity and Data Protection NEW FOR 2027 AI-ERA

Cybersecurity is no longer just an IT concern. Connected plants rely on MES, IIoT, cloud systems, and production data that can directly impact safety, quality, and uptime. Designed for plant managers, operations managers, supervisors, and production leaders who need to understand cyber risks, data integrity, access control, and cyber resilience in modern manufacturing. Learn how to protect critical systems, secure production data, and support safe, reliable, and resilient operations.

- **Awards the PMA Certified Industrial Cybersecurity and Data Professional (CICDP)**

EXECUTIVE FINANCE & STRATEGY

PMEX-123
$395
USD

Advanced Financial Acumen & Capital Allocation for Manufacturing Executives NEW FOR 2027

Financial leadership has become an essential competency for modern manufacturing executives. Designed for VPs of Operations, Plant Directors, General Managers, Manufacturing Executives, Business Unit Leaders, and Senior Operations Professionals seeking to strengthen financial decision-making, capital allocation, profitability analysis, and executive communication. Connect plant-floor performance to EBITDA, ROIC, cash flow, enterprise value, and board-level investment decisions while developing a complete Capstone Workbook and a board-ready CapEx Business Case.

- **Includes a digital and printed PMA Executive Certification in Financial Leadership**

06 · INVESTMENT

Program Pricing

Simple, transparent pricing. Individual courses range from $49 to $395, and every price is per participant, in USD, with taxes included.

ITEM	PRICE
All 17 courses (list total)	**$1,639 USD**
Multi-course discount — automatic at checkout	**10% off 3 or more courses**
Optional hard-copy certificate (shipping included)	**$35 USD each**
Group discount — PM-119 Workplace Safety, 10 or more employees	**10% off**

What the Multi-Course Discount Saves

OPTION	COURSES	LIST	WITH 10% OFF	YOU SAVE
Operational Excellence Certificate	3	$147.00	**$132.30**	**$14.70**
Master Certificate	5	$285.00	**$256.50**	**$28.50**
Full program — all courses	17	$1,639.00	**$1,475.10**	**$163.90**

THE COMPLETE PROGRAM

Enroll in all 17 courses and the automatic 10% discount applies.

$1,475.10 USD per participant down from $1,639

All prices in USD. Taxes included. The multi-course discount is applied automatically at checkout. Discount figures above are calculated from 2027 list prices.

07 · HOW IT WORKS

Delivery & Activation

PMA courses are designed around the reality of working professionals — study when it suits you, on whatever device you have to hand. 100% online, self-paced, and accessible 24/7 from desktop and mobile. Courses are activated within 24 hours of payment.

1

Choose your courses

Browse the catalog and add the courses that fit your goals.

2

Check out

The 10% discount is applied automatically for three or more courses.

3

Start in 24 hours

Your courses activate within 24 hours and are yours to learn at your pace.

Suggested Bundles by Role

Starting points built from the course list. Each bundle has three courses, so the 10% discount applies.

Supervisor Essentials

PM-120 Shop Floor Leadership · PM-111 Leadership Mastery · PM-106 Operational Excellence

$197 list · **$177.30**

Quality Leader

PM-114 ISO 9001 · PM-122 Root Cause & 8D · PM-106 Operational Excellence

$328 list · **$295.20**

Smart Plant Leader

PM-121 AI-Driven Operations · PM-101 Foundations · PM-112 Industry 1.0 → 5.0

$247 list · **$222.30**

Warehouse & Supply Chain

PM-110 Warehousing · PM-118 Advanced Inventory · PM-105 Production Planning

$196 list · **$176.40**

Secure & Smart Plant (NEW)

PM-124 Industrial Cybersecurity · PM-121 AI-Driven Operations · PM-101 Foundations

$287 list · **$258.30**

Executive Leader (NEW)

PMEX-123 Financial Acumen · PM-111 Leadership Mastery · PM-121 AI-Driven Operations

$633 list · **$569.70**

Free Resources

Download these practical tools at plantmanagementacademy.com — no course purchase required.

- Plant Performance Checklist
- Fire Drill Checklist
- Manufacturing KPI Starter Kit
- Employee Review Template

08 · GET IN TOUCH

Contact & Enrollment

Ready to build stronger operations and stronger leaders? Reach out, or enroll online in minutes.

ENROLL NOW

plantmanagementacademy.com/pmaacademy/enroll

Already enrolled? Student login → **lms.plantmanagementacademy.com**

EMAIL	info@plantmanagementacademy.com support@plantmanagementacademy.com
WEB	plantmanagementacademy.com
PHONE	Canada +1 705-532-9746 United States +1 347-838-7598 Toll-Free 1-845-479-5997
OFFICES	Toronto · New York
FIND US	LinkedIn · Facebook · Instagram @pmacademy_26 · X · YouTube

We solve manufacturing problems and improve performance.

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