MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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PVC GRADES VS. PRODUCT APPLICATION

"Selecting the Right PVC Grade for Optimal Product Performance"

Schedule

Date	Venue	Fees (Face-to-Face)
09 – 11 November 2026	Doha, Qatar	USD 2,495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

PVC is one of the most widely used polymers in industrial and consumer applications, but selecting the right PVC grade is critical for product performance, durability, and compliance. Understanding the relationship between resin grades and product applications ensures high-quality outcomes and optimized manufacturing processes.

This intensive 3-day course provides participants with a deep understanding of various PVC grades, their physical and chemical properties, and how these characteristics influence product applications. Through practical examples, case studies, and hands-on workshops, participants will gain the skills to select appropriate PVC grades for specific products and applications.

Objectives

By the end of this course, participants will be able to:

- Understand different PVC resin grades and their properties
- Match PVC grades with specific product applications
- Evaluate mechanical, thermal, and chemical performance requirements
- Identify potential issues in grade selection and mitigate risks
- Implement quality control measures for PVC-based products
- Make informed decisions in product development and manufacturing

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Why Attend

- Improve product quality and performance through optimal PVC grade selection
- Reduce material wastage and production inefficiencies
- Enhance knowledge of PVC properties and industrial applications
- Strengthen product development and R&D capabilities
- Build professional expertise in polymer application and manufacturing decisions

Target Audience

This program is designed for:

- Production and process engineers in PVC industries
- R&D and product development specialists
- Quality assurance and control engineers
- Technical managers and laboratory personnel
- Professionals involved in PVC resin selection and application

Individual Benefits

Key competencies that will be developed include:

- Ability to analyze PVC grade properties for specific applications
- Expertise in matching PVC resins to manufacturing requirements
- Skills in assessing product performance, durability, and quality
- Knowledge of regulatory and industry standards for PVC products
- Enhanced problem-solving and decision-making in production processes

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Optimized PVC grade selection for product applications
- Improved production efficiency and reduced defects
- Enhanced product performance, durability, and compliance
- Better alignment between material selection and business objectives
- Strengthened technical capability for R&D and manufacturing teams

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Overview of PVC grades, properties, and applications
- Case Studies – Examples of product failures and best practices in PVC selection
- Workshops – Hands-on exercises in selecting PVC grades for real-life product scenarios
- Peer Exchange – Group discussions on challenges in grade selection and performance optimization
- Tools – Reference charts, property comparison tables, and selection guidelines

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Course Outline

Detailed 3-Day Course Outline

Training Hours: 07:30 AM – 03:30 PM Daily Format: 3–4 Learning Modules Coffee Breaks: 09:30 & 11:15 Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to PVC Grades and Properties

Module 1: Overview of PVC Grades (07:30 – 09:30)

- Rigid PVC (uPVC) vs. flexible PVC
- Key physical, thermal, and chemical properties

Module 2: Mechanical and Thermal Properties (09:45 – 11:15)

- Tensile strength, hardness, and heat resistance
- Impact on product performance

Module 3: Industry Standards and Testing (11:30 – 01:00)

- ISO, ASTM, and regional standards
- Importance of compliance in product manufacturing

Module 4: Workshop & Practical Exercises (02:00 – 03:30)

- Hands-on evaluation of PVC grades for sample products

Day 2: Matching PVC Grades to Product Applications

Module 1: Product Application Requirements (07:30 – 09:30)

- Pipes, cables, films, profiles, and specialty products
- Performance considerations for each application

Module 2: Grade Selection Criteria (09:45 – 11:15)

- Thermal, mechanical, and chemical compatibility
- Durability and lifecycle considerations

Module 3: Case Study Analysis (11:30 – 01:00)

- Success and failure stories in PVC product applications

Module 4: Workshop & Simulation (02:00 – 03:30)

- Selecting PVC grades for assigned product scenarios

Day 3: Optimization, Quality, and Troubleshooting

Module 1: Troubleshooting Material Issues (07:30 – 09:30)

- Common problems due to incorrect grade selection
- Corrective actions and preventive measures

Module 2: Quality Control and Performance Testing (09:45 – 11:15)

- Ensuring compliance with mechanical, thermal, and chemical standards

Module 3: Practical Application Workshop (11:30 – 01:00)

- Hands-on exercises in product evaluation and grade optimization

Module 4: Final Review & Action Plan (02:00 – 03:30)

- Consolidating learning outcomes
- Developing guidelines for PVC grade selection in the workplace

Certification

Participants will receive a Certificate of Completion in PVC Grades vs. Product Application, validating their ability to select appropriate PVC grades and optimize product performance for industrial applications.

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Why Choose MAWA Events

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In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**