

TechnoBiz MasterClass

Rubber Hose Technology

Expert: UK Prasad



Program Schedule

09:00-10:20	Module 1: Introduction to Rubber Hoses
10:40-11:50	Module 2: Rubber Compound Development for Hoses
12:10-13:15	Module 3: Hose Manufacturing Process & Control
13:45-14:50	Module 4: Rubber Hose - Design & Construction
15:10-16:20	Module 5: Rubber Hose - Testing & Quality Control
16:40-17:40	Module 6: Hose Selection & Installation

Program Content

Module 1: Introduction to Rubber Hoses

- Hose Industry Overview
- Rubber Hoses - Types & Applications
- Hose Manufacturing Basics

Module 2: Rubber Compound Development for Hoses

- Rubber Raw Materials
- Rubber Chemicals & Process Additives
- Compound Property Requirement
- Formulation Development for Hoses
- Typical Formulations
- Rubber Mixing Process & Control

Module 3: Hose Manufacturing Process & Control

- Rubber Extrusion & Calendaring
- Yarn vs. Wire Reinforcement Process
- Braiding, Spiraling & Knitting
- Automotive Hoses
- Hydraulic Hoses
- Industrial Hoses
- Hand-Build Hose
- Manufacturing Process Controls

Module 4: Rubber Hose - Design & Construction

- Hose Specifications & Standards
- Hose Design Features & Construction

Module 5: Rubber Hose - Testing & Quality Control

- Rubber Hose Testing: Types & Methods
- Quality Control & Safety Regulations

Module 6: Hose Selection & Installation

- Selecting Hoses for Applications
- Best Practices of Hose Installation
- Hose Failures: Types & Causes



Speaker – UK Prasad

UK Prasad is a well-experienced rubber technologist with 39 years of experience with specialization in Product, Process & Material Development in Rubber Hoses, Wire & Cables and Belts & Rubber to Metal Bonded Products. His professional experience includes: 24 years at Gates India (Hydraulic & Industrial Hoses); 7 Years at NICCO Corporation (Wires & Cables); 5 Years at Dunlop (Hose, Belts & Rubber to Metal bonded Product); 4 Years at JK Fenner (Hydraulic & Industrial Hoses).

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