

WIPES Academy Instructor: Rob Johnson, PE, Principal Smith, Johnson & Associates

COURSE AGENDA

Monday, June 4, 2018

8:30 am Continental Breakfast

9:00 am Introductions

9:20 am Section 1: Brief Overview of Wipes

- What is a wipe?

- Early wipes

Growth of wipes

- Wipe classifications

Equipment evolutionDesired characteristics

- Why use nonwovens in wipes

Wipe elements

10:35 am Break

10:50 am Section 2: Nonwoven Substrates for Wipes - Materials and Processes

- What is a nonwoven?

Wipes menu

- Raw Materials: fibers & adhesives

Key process elements

Control of fabric properties

Mechanical

Liquid

Examples of key processes

12:15 pm Lunch





1:15 pm Section 3: Liquid Ingredients A - Z ... Anti-aging to Zinc Oxide

- Most common liquid ingredients special focus on:
 - Water
 - Preservatives
- Selected "Special" of the hundreds A to Z
- Liquid logistics, mixing and delivery

2:30 pm Section 4: Packaging Materials

- Package types
- Nonwoven substrate format
- Closure types
- Tradeoffs

3:15 pm Break

3:30 pm Section 5: Wipe Converting Processes: The "-ings"

- Unwinding
- Slitting
- Web Handling
- Turning
- Wetting
- Folding
- Interfolding
- Cutting
- Stacking
- Packaging
- Rolling
- Perforating
- Inserting
- Wetting

4:45 pm Recap of the Day

5:00 pm Cocktail Reception





Tuesday, June 5, 2018

8:30 am Continental Breakfast

9:00 am Section 9: Wipes Markets and Data

Brad Kalil, Director of Market Research & Statistics, INDA

Latest INDA market research and insight

9:45 am Section 11: Influential Issues, Regulations and Flushability

Regulations

- Registrations

Certification programs

Flushability

Jim Loftus, Ph.D., Director of Technical Affairs, INDA

Disposability

10:40 am Break

10:55 am Section 6: Wipe Development & Manufacture - Bringing It All Together

Basic wipe development "skeleton" steps

Raw material flows

Nonwoven, liquids and packaging

Flat-Pack line

Canister line

Case Study: Baby Wipes in North America, 1970 to Current

11:55 am Lunch

12:55 pm Section 7: Cost Effective Production/Sustainability

General thoughts on sustainability as it pertains to wipes

Product design drivers

Logistics and materials efficiency

Production related drivers





1:25 pm Section 8: Quality, Stability, Recalls and Related Matters

- Quality and stability imperative
- Philosophy
- Practice
- What can go wrong
- Protocols
- Quarantine
- Recalls

2:10 pm Break

2:25 pm Section 10: Consumer/Customer Understanding

Quick review of conventional methods

Comments on private label vs. branded business

2:50 pm Section 12: Current "Hot topics"

Contemporary topics

Open discussion

3:10 pm Group Exercise

3:40 pm Recap WIPES Academy

4:00 pm Course Adjourns

INDA's WIPES Academy is a two-day course devoted to the manufacturing, handling and treatment of nonwoven substrates used for disposable wipe applications. The course will begin with a discussion about the various materials and processes used to create wiping substrates for disposable consumer applications. Your training follows the substrate as it travels from the roll through the treatment and converting processes and ultimately the packaging process intended by its end-use. The course will also examine manufacturing concerns ranging from design drivers and preservative options to sustainability challenges and the latest in flushability advancements and government regulations. INDA's Director of Market Research and Statistics will provide market data, trends and a peek at the industry's future.

