



Intermediate Nonwovens Training Course Instructor, Ed Thomas

Head of Research and Product Development, First Quality, Fiberweb, (retired)

COURSE AGENDA

Day 1	Tuesday		
8:30 am	Continental Breakfast	INDA	
9:00 am	Introduction	Dave Rousse, INDA	
9:10 am	Welcome	Dave Nelson, NCSU	
9:20 am	Program Preview ED THOMAS, INSTRUCTOR Video overview, nonwoven markets and product applications, information sources.		
	The World of Nonwovens "Hands-on" examination of nonwoven fabric and e means to illustrate the wide range of nonwoven us Establishment of "Analysis Teams and Tasks."		
12:00 pm	LUNCH	INDA	
1:00 pm	Nonwovens Technology Primer ED THOMAS, INSTRUCTOR Definitions of nonwovens, short history of the technical evolution of the industry.		
	Description of basic nonwoven manufacturing prin Fiber Fundamentals	nciples and systems. ED THOMAS, INSTRUCTOR	
	Generic types and characteristics, property comparisons, raw material-fabric property relationships.		
5:00 pm	Reception and "Analysis Team Bonding"		
6:00 pm	Adjournment (evening on your own)		









Day 2	Wednesday		
8:30 am	Continental Breakfast Analysis Team Work and Discussion Session	INDA	
9:00 am	Web Forming Technologies — Drylaid Nonwovens DAVE NELSON, INSTRUCTOR Analysis of carding and staple fiber airlaid systems. Review of background, process technologies and recent developments.		
	Web Forming Technologies - Wetlaid & Short Fib	etlaid & Short Fiber Airlaid Nonwovens ED THOMAS, INSTRUCTOR	
	velopment of wetlaid nonwovens based on paper technology. Unique aracteristics of cellulose fibers in wetlaid technology. Development of sho er airlaid nonwovens and comparison of short fiber airlaid nonwovens thnology with wetlaid nonwovens technology.		
11:00 am	Travel to Nonwovens Institute		
11:30 am	Nonwoven Institute Welcome	Dave Nelson, Instructor	
11:40 am	Web Forming & Bonding Technologies - "Polymer to Fabric" Nonwovens BEHNAM POURDEYHIMI, INSTRUCTOR Basic principles associated with spunbond, meltblown and film-based nonwovens and the polymers used in their production.		
12:30 pm	LUNCH	Nonwovens Institute	
1:15 pm	Web Forming and Bonding Technologies (con't) BEHNAM POURDEYHIMI, INSTRUCTOR Systems for Spunlaced/ Hydro-entangled nonwovens.		
3:00 pm	Staple & Polymer Lab Discussion	Dave Nelson, Instructor	
3:20 pm	Staple & Polymer Lab Tours & Demonstrations	Dave Nelson, Instructor	
5:25 pm	Adjournment (evening on your own)		









Day 3	Thursday	
8:30 am	Continental Breakfast Analysis Team Work and Discussion Session	INDA
9:00 am	Web Bonding Technologies I Mechanical bonding principles and systems.	Ed Thomas, Instructor
	Web Bonding Technologies II Chemical and thermal bonding principles and syst	Ed Thomas, Instructor ems.
	Nonwoven Fabric Finishing & Converting Principles, processes, and methods used to treat r enhanced physical and aesthetic properties for sp	nonwoven fabrics to obtain
12:00 pm	Travel to Nonwovens Institute	
12:30 pm	LUNCH	Nonwovens Institute
1:15 pm 2:00 pm	Nonwoven Fabric Test Methods & Procedures Test Methods	Amy Minton, Lab Manager
	Overview of nonwoven test methods and standardization of test procedures.	
3:00 pm	Test Lab Tours and Demonstrations	AMY MINTON, LAB MANAGER
5:25 pm	Adjournment (evening on your own)	

Day 4	Friday		
8:15 am	Continental Breakfast	INDA	
8:45 am	Future Trends	BEHNAM POURDEYHIMI, INSTRUCTOR	
	Projection of future applications and developments in manufacturing materials, processes and products.		









9:30 am Analysis Team Presentations ED THOMAS, INSTRUCTOR

10:30 am BREAK

10:45 am Hot Topics DAVE ROUSSE, INDA

Latest information regarding flushable wipes and single-use plastics.

11:15 am Nonwovens Markets Statistics, Trends & Directions

BRAD KALIL, INDA

12:15 pm LUNCH/Course Adjournment INDA

Please exchange a completed evaluation for your certificate.



