



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 ED THOMAS, INSTRUCTOR "Hands-on" examination of nonwoven fabric and end-use product samples as means to illustrate the wide range of nonwoven usage. Establishment of "Analysis Teams and Tasks."		
12:00 pm	LUNCH	INDA	
1:00 pm	Nonwovens Technology Primer Definitions of nonwovens, short history of the tec industry.	ED THOMAS, INSTRUCTOR hnical evolution of the	
	Description of basic nonwoven manufacturing principles and systems. Fiber Fundamentals 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)		







NONWOVENS TRAINING COURSE



Day 2 Wednesday

8:30 am	Continental Breakfast Analysis Team Work and Discussion Session	INDA	
9:00 am	:00 am Web Forming Technologies – Drylaid Nonwovens DAM Analysis of carding and staple fiber airlaid systems. Re- process technologies and recent developments.		
	Web Forming Technologies - Wetlaid & Short Fibe	er Airlaid Nonwovens Ed Thomas, Instructor	
	Development of wetlaid nonwovens based on paper technology. Unique characteristics of cellulose fibers in wetlaid technology. Development of short fiber airlaid nonwovens and comparison of short fiber airlaid nonwovens technology 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 Венлам Pourdeyнimi, 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)		







NONWOVENS TRAINING COURSE



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 sys	Ed Thomas, Instructor Items.	
	Nonwoven Fabric Finishing & Converting ED THOMAS, INSTRUCTOR Principles, processes, and methods used to treat nonwoven fabrics to obtain enhanced physical and aesthetic properties for specific end-use.		
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	
11:15 am	Nonwovens Markets Statistics, Trends & Direc	tions BRAD KALIL, INDA	
12:15 pm	LUNCH/Course Adjournment Please exchange a completed evaluation for y	INDA our certificate.	



