TAPPI Academy is the education and training center of excellence for the worldwide pulp, paper, packaging, tissue, and converting industries.

Look for this symbol for TAPPI Peer-Reviewed content:
TAPPI courses with the Peer Review signifier represent content that has passed our stringent peer-review process by expert knowledge holders within the relevant field.

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TAPPI courses with the SME signifier represent content that has been developed and presented by proven industry experts exhibiting the highest level of expertise in performing a specialized job, task, or skill within their industry.

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TAPPI courses with the Certificate signifier represent content with an available exam developed by industry practitioners who uniquely understand the technical knowledge and experience required for superior performance in the global forest products industries.

**PAPER MANUFACTURING COURSES**

**FACE-TO-FACE EDUCATION**

**Introduction to Pulp & Paper Technology January 8-11, 2018**
This introductory course gives students increased confidence in understanding the pulp and paper processes, as well as ways to interact more knowledgeably with process engineers and operators and to increase their ability to contribute to improving mill operations.

**Paper Machine Operations May 15-17, 2018**
This introductory course provides students with an increased understanding of fiber properties, the way mechanical components function on the paper machine, as well as the tools needed to quickly troubleshoot operational problems and improve paper machine operations and product quality.

**Introduction to Wet End Chemistry June 12-14, 2018**
This introductory course provides students with a foundation upon which to develop effective wet end chemistry troubleshooting and optimization programs for their companies. This course is designed to facilitate an understanding of improved product quality, increased machine productivity and cost reduction.

**eLEARNING**

**Paper Manufacturing Technology - 33 Learning Modules**
A comprehensive overview of papermaking technology, process variables, equipment and terminology. Learn about paper and board structure, properties, and tests as well as how to maintain product quality metrics, and troubleshoot variations in quality as well as apply analytical concepts and systems-approach thinking on a mill-wide basis.

**Wet End Chemistry - 31 Learning Modules**
A comprehensive overview of wet end chemistry applications including case studies and practical examples. This course provides a review of wet end materials, including fillers and chemical additives.

**Paper Coating Technology - 26 Learning Modules**
A review of methods used to print coated grades of paper and board, coating requirements for these grades, and methods used to test print properties of coated papers. Learn about latex and polyvinyl alcohol binders, advantages and disadvantages of use, and processes used to prepare both binder types as well as increase their knowledge of basic materials within the class of coating additives.

Current face-to-face course calendar available at www.tappi.org/coursecalendar
Paper Machine Optimization – **55 Learning Modules**
This course is designed for more experienced operators and technical personnel, focusing on paper machine optimization as presented by industry suppliers and consultants. Learn variables important for paper machine optimization from Wet End Operations to Pressing & Dry End Operations.

Matra Operator Training (Premier Paper Package) – **6 Learning Modules**
This course for paper machine operators and maintenance personnel combines operating technology, variables interactions, equipment design important for operations and maintenance, and process control – a unique combination. Topics include: Approach Flow Systems, Headbox & Formation, Dewatering from the Fourdrinier, Press Section, Dryer and Hood, and Wet End Chemical Additives.

**Additional Paper Manufacturing Courses:**
- Broke Systems – 5 Modules
- Chemical Additives – 4 Modules
- Converting – 3 Modules
- Dry End Equipment – 11 Modules
- Finishing – 4 Modules
- General Paper Making – 6 Modules
- Headboxes – 4 Modules
- Paper Machine Auxiliary Systems – 8 Modules
- Paper Machine Dryers – 8 Modules
- Paper Properties and Testing – 4 Modules
- Stock Approach – 4 Modules
- Stock Preparation – 5 Modules
- Storage and Shipping – 5 Modules
- Wet Pressing – 7 Modules
- White Water and Filtrate Systems – 6 Modules

**FACE-TO-FACE EDUCATION**

Introduction to Pulp & Paper Technology  **January 8-11, 2018**
This introductory course gives students increased confidence in understanding the pulp and paper processes, as well as ways to interact more knowledgeably with process engineers and operators and to increase their ability to contribute to improving mill operations.

Kraft Recovery Operation Systems  **January 8-11, 2018**
This intermediate course examines key recovery operations in a kraft pulp mill to help students increase their ability to improve pulp production efficiency while minimizing operating costs and environmental problems. The course will cover chemistry, physics and engineering relating to kraft recovery.

Introduction to Wet End Chemistry  **June 12-14, 2018**
This introductory course provides students with a foundation upon which to develop effective wet end chemistry troubleshooting and optimization programs for their companies. This course is designed to facilitate an understanding of improved product quality, increased machine productivity and cost reduction.

Introduction to Kraft Pulping and Bleaching  **August 9-10, 2018**
This introductory course provides students with knowledge of how the kraft pulping and bleaching area affects other areas of the mill. Students will gain an increased understanding of kraft pulp mill operations and the effect of processes on kraft pulp quality.

**eLEARNING**

Pulp Manufacturing Technology – **26 Learning Modules**
In this introductory course, students will learn how one part of the mill affects another and begin thinking on a mill-wide basis, study how pulp mill processes affect pulp properties, thereby increasing the ability to maintain product quality metrics, and troubleshooting for variations in quality and examine the complex environmental challenges associated with pulp manufacturing.

Online course information available at www.tappi.org/elearning
Chemical Recovery – **12 Learning Modules**
This introductory course provides students with an improved understanding of Chemical Recovery Operations and terminology. Topics include: evaporation, recovery boiler, recausticizing, lime kiln, sulfite recovery systems and forest biorefinery.

Environmental Control - **10 Learning Modules**
This introductory course focuses on U.S. environmental laws and regulations, air emission compounds and sources, air treatment options and effluent treatment (primary and secondary activated sludge and aerated lagoon) operations.

Technology and Science of Paper Recycling – **34 Learning Modules**
This introductory course helps students develop the ability to understand and address recycling processes and issues, including quality of the raw materials, requirements to be environmentally friendly and strategies to produce pulp at the lowest cost.

**Additional Pulping Courses:**
- Bleaching – **11 Modules**
- Environmental – **6 Modules**
- Evaporators – **5 Modules**
- Fiber Supply – **4 Modules**
- Kraft Pulping – **12 Modules**
- Recaust – **12 Modules**
- Recovery – **9 Modules**
- Supplemental and Recycled Fiber – **13 Modules**

**Flexible Packaging Courses**

**FACE-TO-FACE EDUCATION**

Corona & Atmospheric Plasma 101   **April 11, 2018**
This introductory course provides students with a basic understanding of surface energy, why it is important, and how corona and plasma surface modification technologies can offer solutions to surface wettability and adhesion in a wide range of industries.

Extrusion Coating Short Course   **August 2018**
This intermediate-to-advanced course teaches students basic resin and equipment technology specific to the extrusion coating process as well as ways to troubleshoot common process problems.

NEW! Blown & Cast Film Extrusion   **November 2018**
This introductory-to-intermediate course informs students about common resins and equipment used in both blown and cast film applications processes as well as provides a better understanding of film extrusion technology and ways to improve existing film extrusion processes.

**Corrugated Courses**

**FACE-TO-FACE EDUCATION**

Best Practices on the Corrugator   **February 12-15, 2018**
This introductory-to-intermediate course will help students learn to achieve higher productivity, better product quality and waste reduction. Students will study the basis of how each component in the corrugator system works and how to run each component with optimum settings for peak performance. Students will also develop an understanding of the critical properties of the raw materials that are vital to guaranteeing acceptable quality board.

Current face-to-face course calendar available at www.tappi.org/coursecalendar
Direct Print on Corrugated Substrates  March 2018
This series consists of two, four-day courses that explain how flexography is used to enhance corrugated containers to sell more product. The Introduction to Flexography course focuses on the basics of flexography and its five core variables: Anilox, Paper, Plates, Ink and Machine. Participants will gain an understanding of press set up, print assessment, target evaluation, ink management and housekeeping, as well as troubleshooting print issues. Monitoring and Controlling Color in the Pressroom covers the definition of color, viewing conditions, and color evaluation tools and equipment as well as how to: identify a color, request matched ink from the ink manufacturer, interpret color data and manage ink on the press to maintain color.

Introduction to Corrugated  August 7, 2018
This introductory course is intended as an entry level introduction to corrugated packaging. The course is designed in an easy to understand format, which gives your employees the ability to develop, understand, and communicate in a “common” corrugated language.” This common language allows them to identify and quickly resolve many quality issues on your corrugator.

Advanced Bonding: Examining the Bonding Process  August 8-9, 2018
This advanced course will help students increase their understanding of the corrugated bonding process including factors and variables that impact bond performance, how to read the board to determine proper bonding settings, glue line analysis, combined board caliber and process centerlining.

Troubleshooting Flexos and Die Cutters Sustain Board Caliper & Improve Printing Course  September 2018
This introductory-to-intermediate calibration course teaches students to identify and address downtime issues while understanding correct methods of machine calibration, waste reduction, and improved methods of accurate color control in the printing process. Held in conjunction with Corrugated Week September 22-26, 2018.

eLEARNING

Corrugated Packaging – Box Plant Basics – 10 Learning Modules
These corrugated packaging & box training courses cover corrugated material manufacturing and converting processes. These fundamental courses include both equipment and process descriptions as well as performance testing and plant safety.

Box Plant modules can be purchased separately. Modules include:
• Corrugated Box Basics
• Other Box Plant Equipment
• Safety
• Raw Materials
• Corrugators
• Board Tests
• Die Cutters
• Corrugating Adhesives
• Box Plant Equipment Basics
• Flexo Folder-Gluers

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FACE-TO-FACE LEARNING

Tissue 101: Properties & Processes  November 7-8, 2018
This introductory course increases students understanding of tissue performance properties and manufacturing. It is designed for students who desire a comprehensive overview of the tissue manufacturing process and the effect of processes on product performance properties.
Tissue 201: Operations & Runnability  May 1-2, 2018
This intermediate-to-advanced course helps students to improve tissue quality and consistency, understand contributors to waste and downtime, learn reliability and maintenance best practices and diagnose and troubleshoot problems quickly.

Tissue 202: Converting Operations  September 18-20, 2018
This intermediate course explains the basic rolled products converting processes and how tissue parent roll (jumbo reel/soft roll) quality and variability impacts the runnability of these complex lines.

Tissue 203: Converting System Analysis and Coordination  November 2018
This advanced course demonstrates key principles and calculations for analyzing converting speeds and changes in converting rates due to product configuration changes. Students learn to identify bottlenecks and participate in hands-on demonstration of computer simulation for understanding and improving converting layouts.

Tissue 101: Properties & Processes
This introductory course increases students understanding of tissue performance properties and manufacturing. It is designed for students who desire a comprehensive overview of the tissue manufacturing process and the effect of processes on product performance properties.

Tissue 201: Operations & Runnability
This intermediate-to-advanced course helps students to improve tissue quality and consistency, understand contributors to waste and downtime, learn reliability and maintenance best practices, and diagnose and troubleshoot problems quickly.

Tissue Manufacturing Technology – 24 Learning Modules
This introductory-to-intermediate course is designed to increase understanding of tissue raw materials, equipment & processes. Topics include: stock prep and wet end chemicals, tissue machine technology, creping, tissue softness and strength.

COMPANY CLASSROOM
Finding experienced experts, with industry-specific knowledge to train all your employees (new hires, technical and non-technical people, new and experienced operators) can be challenging, which is why we’re proud to offer our members customized training courses that are delivered right to your company’s doorstep.

Our instructors have years of experience working in the paper, packaging, tissue and converting industries, so they understand the needs of manufacturers and suppliers. Our Company Classrooms span the entire pulp manufacturing and papermaking processes, including Pulping, Washing, Screening, Bleaching, Chemical Recovery and Recycling; Refining, Chemical Additives, Wet End Operations, Pressing, Drying, Calendering, Coating, Converting, and Corrugating.

We can also tailor courses to suit your company’s needs and audiences. One of our instructors will sit down with you to assess your training requirements, and will then create a curriculum that can cover everything from entry-level training to highly niche topics.

For more information, contact us at training@tappi.org

Continuing Education Credits Provide Training Incentives for Your Staff
CEUs – The education Project Center of TAPPI has been reviewed and approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET).
12100 Sunset Hills Road, Ste. 130
Reston, VA 20190

Current face-to-face course calendar available at www.tappi.org/coursecalendar
TAPPI Professional Certificates

A new standard of excellence for careers in the forest products industries.

Introducing TAPPI’s newest program for professional development! Designed to meet the needs of today’s competitive environment, earning a TAPPI Professional Certificate demonstrates the ability to expertly manage industry demands.

Our Professional Certificate programs are developed by industry practitioners who uniquely understand the technical knowledge and experience required for superior performance in the global forest products environment.

ELEVATE YOUR REPUTATION AMONGST EMPLOYERS, CLIENTS AND PEERS AND POSITION YOURSELF FOR SUCCESS!

Our current Professional Certificates cover material from Tissue 101: Properties & Processes and Tissue 201: Operations and Runnability. Earning these Professional Certificates ensures you have demonstrated competency in critical tissue manufacturing knowledge, including:

- Overall understanding of the tissue making process and best practices for runnability and consistency
- Principles of wet end chemistry and furnish on tissue properties
- Procedures for cleaning and conditioning of felts and wires
- Understanding how to troubleshoot common contributors to waste and downtime on the tissue machine

For more information, visit [www.tappi.org/certificate](http://www.tappi.org/certificate) or contact us at training@tappi.org.

WEBINARS

If you’re looking for workshops that are:

- **Brief** (typically one hour long)
- **Require no travel** (stream live from your computer)
- **Focused** (covering the topics that matter most to you)

…look no further than TAPPI Webinars. If you can’t make the live broadcast, you can download the recordings. Webinars are free to TAPPI members.

More information and list of upcoming webinars at [www.tappi.org/Education/Webinars](http://www.tappi.org/Education/Webinars)

Looking for quick-reference desk materials? TAPPI Press has more than 275 publications!

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Online course information available at [www.tappi.org/elearning](http://www.tappi.org/elearning)
### JANUARY
- **8-11** Intro to Pulp & Paper*  
  St. Petersburg, FL
- **8-11** Kraft Recovery  
  St. Petersburg, FL
- **18-19** Coating & Lamination Course*  
  Stevens Point, WI
- **26-27** Hands-on Papermaking Course*  
  Stevens Point, WI

### FEBRUARY
- **5-6** Planification et ordonnancement (French version of IDCON’S Work Management Planning and Scheduling)  
  Longueuil, QC
- **6-8** RCM2  
  Texarkana, TX
- **7-8** La planification des arrêts planifiés (French version of IDCON’S Shutdown Turnaround Optimization Program)  
  Longueuil, QC
- **12-15** Best Practices on the Corrugator*  
  Norcross, GA
- **20-21** Develop and Manage Preventive Maintenance  
  Raleigh, NC
- **22-23** Essential Care & Inspection Techniques  
  Raleigh, NC

### MARCH
- **5-8** Direct Print on Corrugated Substrates: Intro to Flexography & Print Assessment*  
  Renton, WA
- **5-9** Hands-On Workshop for Pulp & Paper Basics  
  Raleigh, NC
- **6-7** Materials and Spare Parts Management  
  Raleigh, NC
- **12-15** Direct Print on Corrugated Substrates: Monitoring and Controlling Color in the Pressroom*  
  Renton, WA
- **19-22** Pulp and Paper Reliability Maintenance Conference  
  Raleigh, NC

### APRIL
- **5-6** Hands-on Papermaking Course*  
  Stevens Point, WI
- **24-25** Root Cause Problem Elimination  
  Raleigh, NC

### MAY
- **1-2** Tissue 201: Operations and Runnability*  
  Appleton, WI
- **3-4** Advanced Paper Making: Formation  
  Stevens Point, WI
- **8-9** RCM2  
  Texarkana, TX
- **14-15** Planification et ordonnancement (French version of IDCON’S Work Management Planning and Scheduling)  
  Longueuil, QC
- **15-17** Papermachine Operations Course*  
  Appleton, WI
- **15-16** Work Management Planning & Scheduling  
  TBD
- **16-17** La planification des arrêts planifiés (French version of IDCON’S Shutdown Turnaround Optimization Program)  
  Longueuil, QC
- **23** Corona and Atmospheric Plasma  
  Hartland, WI
- **31-June 1** Advanced Paper Making: Additives  
  Stevens Point, WI

### JUNE
- **4-8** Hands-On Workshop for Pulp and Paper Basics  
  Raleigh, NC
- **12-14** Wet End Chemistry Course*  
  Peachtree Corners, GA

### JULY
- **26-27** Coating & Lamination Course*  
  Stevens Point, WI

### AUGUST
- **7** Intro to Corrugated Course*  
  Norcross, GA
- **8-9** Advanced Bonding Course*  
  Norcross, GA
- **14-15** Introduction to Kraft Pulping & Bleaching*  
  Norcross, GA
- **14-16** RCM2  
  Texarkana, TX
- **18-20** Extrusion Coating Symposium*  
  Green Bay, WI

### SEPTEMBER
- **6-7** Hands on Paper Making Course  
  Stevens Point, WI
- **10-11** Work Management Planning & Scheduling  
  Raleigh, NC
- **12-13** Shutdown Turnaround Optimization Program  
  Raleigh, NC
- **17-18** Planification et ordonnancement (French version of IDCON’S Work Management Planning and Scheduling)  
  Longueuil, QC
- **18-20** Tissue 202: Converting Operations  
  Green Bay, WI
- **19-20** La planification des arrêts planifiés (French version of IDCON’S Shutdown Turnaround Optimization Program)  
  Longueuil, QC

### OCTOBER
- **1-2** Develop and Manage Preventive Maintenance  
  Raleigh, NC
- **1-5** Hands-On Workshop for Pulp and Paper Basics  
  Raleigh, NC
- **3-4** Essential Care & Inspection Techniques  
  Raleigh, NC
- **9-11** RCM2  
  Texarkana, TX
- **10** Corona and Atmospheric Plasma  
  Hartland, WI
- **11-12** Advanced Paper Making: Formation  
  Stevens Point, WI
- **16-18** NCSU Financials Course  
  Raleigh, NC

### NOVEMBER
- **6-7** Root Cause Problem Elimination  
  Raleigh, NC
- **7-8** Tissue 101: Properties and Processes  
  Appleton, WI
- **8-9** Advanced Paper Making: Additives  
  Stevens Point, WI
- **19-20** Planification et ordonnancement (French version of IDCON’S Work Management Planning and Scheduling)  
  Longueuil, QC
- **21-22** La planification des arrêts planifiés (French version of IDCON’S Shutdown Turnaround Optimization Program)  
  Longueuil, QC

### DECEMBER
- **11-12** Materials and Spare Parts Management  
  Raleigh, NC

*TAPPI Members receive discounted registration on select courses. For more information, visit www.tappi.org/coursecalendar or contact us at training@tappi.org. Note: These dates are subject to change.