

MONDAY, SEPTEMBER 13

SCHEDULE-AT-A-GLANCE

TECHNOLOGY	8:00 AM – 9:30 AM	10:30 AM – 12:00 PM	1:00 PM – 2:30 PM	3:30 PM – 5:00 PM
3D/ADDITIVE MANUFACTURING	F10: Fundamentals of AM (7 Processes, Hybrid, AM Enabled) Room S405B	NEW! F11: The Hidden Challenges: Is Additive Manufacturing for You? Room S405B	NEW! F12: Managing the AM Supply Chain Room S405B	NEW! F13: Ask the Panel of Additive Manufacturing Experts (BONUS SESSION) Room S405B
AUTOMATION/ROBOTICS	NEW! F20: Automation Adoption: What You Need to Know & Why Room S405A	NEW! F21: Five Steps to Creating Operational Excellence in Robotic Joining Room S405A	WS3: Getting Started with Robotics: A Journey to the World of Robotics & Autonomous Systems Workshop (1:00 PM - 4:00 PM) Room S405A	
CUTTING			NEW! F32: The Most Versatile Machine Tool & 7 Habits of Highly-Effective Nesting Software Room S401D	F33: Comparative Cutting Room S401D
FINISHING			C12: I Want to Ecoat, Now What? Room E353A	
			C22: Powder Coating Basics - A Fundamental Understanding of a Powder Coating System Room E353B	
FORMING & FABRICATING	F40: Press Brake for Engineers Room S403B	F41: Tube Bending: Best Practices Room S403B	F42: Coil Processing: Blanking, Leveling, and Deburring Room S403B	F43: Roll Forming Basics Room S403B
JOB SHOP	NEW! WS7: Business Owners Guide to Protect, Value and Plan for the Future Workshop (8:00 AM - 12:15 PM) Room S403A		NEW! F72: Industrial Ventilation & Air Filtration: Understanding Options in System Design Room S403A	F73: Estimating Software to Manage the Job Shop Room S403A
LASER		NEW! F31: How Much Laser Power Is Right for Your Business? Room S401D		
LEAN	NEW! F50: Lean Principle: Blue-Collar Kaizen: Leading Lean & Lean Teams Room S402A	F51: Lean Principle: Getting Started with Your Lean Journey Room S402A		NEW! F53: Lean Tools: Production Floor Communication to Strengthen Employee Engagement & Standard Work Room S402A
MANAGEMENT	F60: Breaking Boundaries for Operational Excellence Room S404BC	F61: Business Builders: Make Business Development a Competitive Advantage Room S404BC	NEW! F62: Creating and Sustaining Cultures of Innovation in Manufacturing Room S404BC	F63: Strategies for Leading & Managing a Change Initiative Room S404BC
MARKETING & SALES	NEW! WS8: Market and Build Your Fabrication Story Workshop (8:00 AM - 12:00 PM) Room S402B		NEW! F82: From Funnel to Flywheel: How to Maximize Your Marketing for Sales Room S402B	NEW! F83: Learn How to Optimize Your Sales Team's Funnel & Obtain Visibility into Your Sales Forecast Room S402B
SMART MANUFACTURING	NEW! F90: Meeting Changing Buyer Expectations Through Digital Transformation Room S404D	NEW! F91: IIoT to Improve Manufacturing Process Room S404D	NEW! F92: Digital Tools & Technology to Mitigate Project Risk Room S404D	F93: Leveraging A.I. In Industrial Manufacturing Room S404D
STAMPING		S11: Understanding Servo Metal Stamping Presses, Proper Usage, Troubleshooting and Maintenance Room S404A	NEW! S12: Heat Treating Fundamentals, Vacuum Heat Treating and Applications Room S404A	NEW! S13: 5 Steps to Creating Operational Excellence in the Press Shop Room S401BC
WORKFORCE DEVELOPMENT	NEW! F110: Winning the Workplace Challenge: Getting Along and Getting Things Done Room S401BC	NEW! F111: Tutorial on How to Develop or Enhance Virtual Presentation & Internships Room S401BC	NEW! F112: Three Key Areas that are Essential to Become a Better Leader Room S401BC	F113: Read (Hidden) Emotions - Know What Others are Thinking and Feeling Room S401BC
WELDING	W1: How to Create and Write a Quality Manual for the ATF Program - Room N230AB			1:00 PM – 5:00 PM
	W2: Overview of Welding Inspection - Room N231			1:00 PM – 5:00 PM

CONFERENCE PROGRAM INFORMATION

Schedule subject to change. Detailed Conference Program session descriptions, speakers, pricing, room locations and more can be found at fabtechexpo.com/conference.

■ Basic
 ■ Intermediate
 ■ Advanced

TUESDAY, SEPTEMBER 14

SCHEDULE-AT-A-GLANCE

CONFERENCE PROGRAM INFORMATION

TECHNOLOGY	8:00 AM – 9:30 AM	10:30 AM – 12:00 PM	1:00 PM – 2:30 PM	3:30 PM – 5:00 PM
3D/ADDITIVE MANUFACTURING	NEW! ■ WS1: Navigating Technology and Design Considerations in Additive Manufacturing Workshop (8:00 AM - 12:00 PM) Room S405B			
AUTOMATION/ROBOTICS	NEW! ■ F24: Position Your Business for Future Growth & Speed Up the Workforce with Automation Process Room S405A	NEW! ■ F25: Do You Know How Much Money You Are Losing Due to Equipment Downtime? Room S405A	NEW! ■ WS4: An Introduction to the World of AGVs: Identifying the Considerations for a Successful Application Workshop (1:00 PM - 5:00 PM) Room S405A	
CUTTING		NEW! ■ F35: Advancements in Cutting Automation Room S401D		
FINISHING	NEW! ■ C14: Automation - Controlling the Process Room E353A	NEW! ■ C15: Busting the Myths: What Really Matters in Metal Cleaning Room E353A	NEW! ■ C16: Improving System Performance Room E353A	
	■ C24: I Want to Powder Coat, Now What? Room E353B	■ C25: Optimizing Your Powder Coating Operations Room E353B	NEW! ■ C26: Operating Liquid Systems Efficiently Room E353B	
	NEW! ■ C34: Pretreatment - Get The Latest and Greatest! Room E353C	■ C35: See It, Touch It, Fix It - Identifying and Solving Finishing Defects Room E353C	NEW! ■ C36: Solutions for Metal Cleaning Issues Room E353C	
FORMING & FABRICATING	■ F44: Roll Forming: In-line Punching, Cutoff Dies, and Press Tonnage Room S403B	■ F45: Machine Safeguarding Room S403B	■ F46: Roll Forming: Justification and Welding Profiles Room S403B	NEW! ■ F47: Addressing Modern Day Metals in the Roll Forming Process Room S403B
JOB SHOP	NEW! ■ F74: Improving Production Outcomes Through Cross-Crew Synthesis Room S403A	NEW! ■ F75: Made to Order Tooling & Production Scheduling Room S403A	■ F76: Are Scheduling Problems Really Symptoms: "A Quick Fix for Job Shops" Room S403A	NEW! ■ F77: Transforming a Tired Manufacturing Company Back to an Industry Leader Room S403A
LASER	■ F34: Laser Ecosystems for Fiber Laser Cutting & Surface Cleaning Room S401D		NEW! ■ F36: Advantages of Laser Welding Applications Room S401D	NEW! ■ F37: Industrial Laser and Cutting Applications & Solutions Room S401D
LEAN	NEW! ■ WS6: Lean Overview - Principles & Practices Hands-On Learning Workshop (8:00 AM - 12:00 PM) Room S402A		■ F56: Lean Principle: Value Stream Mapping: Understanding the Whole from Sales to Shop to Customer Room S402A	■ F57: Lean Principle: A3 Thinking; Developing People & Solving Problems Room S402A
MANAGEMENT	NEW! ■ F64: Gen Z Is Coming - What You Need to Know for Your Business Room S404BC	NEW! ■ F65: That Was Fun! Where Are We in 2021? Room S404BC		NEW! ■ F67: Strategies To Create a Workplace Culture That Works! Room S404BC
MARKETING & SALES	NEW! ■ F84: Winning With Social Media & Website Connections Room S402B	NEW! ■ F85: Ensuring A Successful Product Launch Room S402B	NEW! ■ F86: Building an Inside (Outbound) Sales Team Room S402B	NEW! ■ F87: Client Engagement: Compete on Awesome Room S402B
SMART MANUFACTURING	NEW! ■ F94: Key Steps to Jump Start Your Smart Manufacturing Journey Room S404D	NEW! ■ F95: The Manufacturers Data-Driven Playbook Room S404D	NEW! ■ WS10: Digital Transformation Models for Industry 4.0 Workshop (1:00 PM - 4:00 PM) Room S404D	
STAMPING		■ S15: Processing Parts for Progressive Dies - Evaluating Strip Layouts Room S404A	■ S16: Processing Parts for Progressive Dies - Engineering Principles and Design Guidelines Room S404A	■ S17: Automatic In-Die Part Quality Monitoring & Tool Adjustments Room S404A
WORKFORCE DEVELOPMENT	NEW! ■ F114: Blue-Collar Leadership® & Culture: The 5 Components for Building High-Performance Teams Room S401BC	NEW! ■ F115: The Art of Assertive Communication Room S401BC	■ F116: How to Attract and Keep the Right Talent Room S401BC	NEW! ■ F117: Give Your Employees C.R.A.P...The Success Formula for Building Employee Loyalty Room S401BC
WELDING	■ W3: AWS/Weld-Ed Conference - Project Based Welding Curriculum - Room N228			8:00 AM - 4:00 PM
	■ W5: Advanced NDT Methods and Your Future as a CWI - Room N230AB			8:00 AM - 11:00 AM
	■ W6: Metallurgy (Intermediate) - Room N230AB			1:00 PM - 5:00 PM

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■ = Basic ■ = Intermediate ■ = Advanced



WEDNESDAY, SEPTEMBER 15

SCHEDULE-AT-A-GLANCE

TECHNOLOGY	8:00 AM – 9:30 AM	10:30 AM – 12:00 PM	1:00 PM – 2:30 PM	3:30 PM – 5:00 PM
3D/ADDITIVE MANUFACTURING	NEW! ■ WS2: Pre and Post Processing of Additive Parts Workshop (8:00 AM - 12:00 PM) Room S405B		■ F101: Continuous Improvement for Additive Manufacturing Initiatives Room S405B	NEW! ■ F102: Materials and Joining for Plastic & Metal AM Technology Room S405B
AUTOMATION/ROBOTICS	NEW! ■ F28: Understanding & Automating Your Data to Stay Competitive Room S405A	NEW! ■ F29: Automating Press Brake & Bending Systems Room S405A	■ F201: What You Need to Understand Before Thinking About Running Your Shop Lights-Out Room S405A	NEW! ■ F202: Automation for Metal & Finishing Processes Room S405A
CUTTING	NEW! ■ F38: Advancements in 3D Plasma and Waterjet Cutting Room S401D	■ F39: Getting the Most Out of Your Waterjet Room S401D		
FINISHING	NEW! ■ C18: Robotic Finishing for General Industry Room E353A	NEW! ■ C19: Finishing's Future Through Automation Room E353A		
	NEW! ■ C28: Finishing Systems - Design and Project Management Room E353B	■ C29: Automating Your Powder Coating Line Room E353B	NEW! ■ C201: Mastering Surface Preparation Room E353B	
	NEW! ■ C38: Advancements in Powder Coating Materials Room E353C	NEW! ■ C39: Technology Update - Heat Sensitive Substrates Room E353C	■ C301: Preventative Maintenance and Troubleshooting Your Powder Coating Operations Room E353C	
FORMING & FABRICATING	■ F48: Tube Bending and Hydroforming Room S403B	■ F49: Roll Forming: Advanced Techniques and Design Room S403B	■ F401: Coil Processing: Slitting Thin Materials, Leveling, & Deburring Room S403B	
JOB SHOP	■ F78: Your Family Business: Everything You Need to Know Room S403A	NEW! ■ F79: Revolutionizing the Manufacturing Industry with XR Technology Room S403A	■ F701: Innovative Manufacturers: To Patent or Not to Patent? Room S403A	
LASER			NEW! ■ WS5: Laser Fabrication: Welding, Cutting & Additive Workshop (1:00 PM - 5:00 PM) Room S401D	
LEAN	■ F58: Lean Tools: Go to Gemba Room S402A	NEW! ■ F59: Lean Tools: Hoshin Kanri Room S402A	NEW! ■ F501: Lean Tools: Mastering Mixed Model Flow for a High-Performance Operation Room S402A	NEW! ■ F502: Lean Principle: Long-Term & Four System View of Lean for Manufacturing Success Room S402A
MANAGEMENT	NEW! ■ F68: How to Build a Better Supply Chain for your Business Room S404BC	NEW! ■ F69: Thriving Under Pressure: Revenue Growth In a New Business Paradigm Room S404BC	NEW! ■ F601: Markets & Energy Incentives for Manufacturing Room S404BC	■ F602: Brainstorming & Problem Solving Tools for Leaders Room S404BC
MARKETING & SALES	NEW! ■ F88: Creating an Inbound Marketing Action Plan for Manufacturers Who Are Prioritizing Online Lead Generation Room S402B	NEW! ■ F89: How Industrial and Manufacturing Companies Create Predictable Revenue Growth Room S402B	NEW! ■ WS9: Essential Sales Strategies for Manufacturers in 2021 and Beyond - Workshop (1:00 PM - 5:00 PM) Room S402B	
SMART MANUFACTURING	NEW! ■ WS11: Smart Manufacturing Bootcamp (8:00 AM - 5:00 PM) Room S404D			
STAMPING	■ S18: Deep Drawing Cylindrical Shells: Tooling Principles and Design Guidelines Room S404A	■ S19: Deep Drawing Rectangular Box Shells: Tooling Principles and Design Guidelines Room S404A	NEW! ■ S101: Reducing Cost and Risk to Timing Associated with Tool Buy-Off Room S404A	■ S102: Evaluating Your Lubricants for Performance and Safety Room S404A
WORKFORCE DEVELOPMENT	NEW! ■ WS12: Leadership Skills & Development Workshop (8:00 AM - 12:30 PM) Room S401BC		NEW! ■ F210: Diversity, Equity, and Inclusion: Future-Proofing Your Workforce Room S401BC	■ F211: Why You Can't Get Your People Motivated & What To Do About It Room S401BC
WELDING	W7: Additive/ASME - Room N230AB			8:00 AM - 11:00 AM
	W8: Metallurgy (Advance) - Room N230AB			1:00 PM - 5:00 PM

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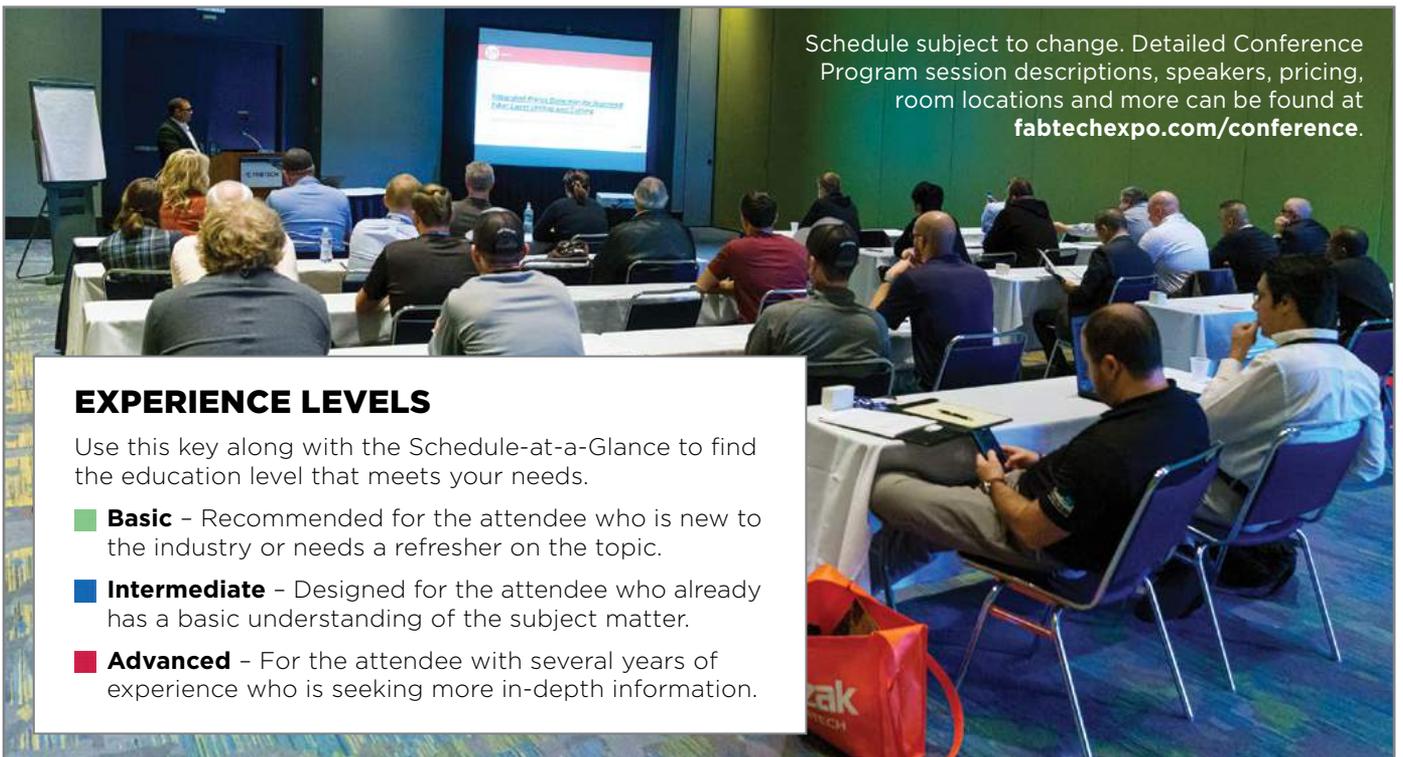
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THURSDAY, SEPTEMBER 16

SCHEDULE-AT-A-GLANCE

CONFERENCE PROGRAM INFORMATION

TECHNOLOGY	8:00 AM – 9:30 AM	10:30 AM – 12:00 PM	1:00 PM – 2:30 PM	3:30 PM – 5:00 PM
AUTOMATION/ROBOTICS	NEW! ■ F203: Optimize Your Automation Joining Process Room S405A			
FINISHING				
FORMING & FABRICATING				
SMART MANUFACTURING	NEW! ■ F903: The Promise of Industry 4.0 & Lean Management Room S404D	NEW! ■ F904: Driving Change with Your Data & Implementing an Industry 4.0 Strategy Room S404D		
WELDING SESSIONS	W9: Weld Cracking - Room N230AB			8:00 AM - 11:00 AM
	W10: ASME Codes and Standards Update - Room N231			8:00 AM - 11:00 AM



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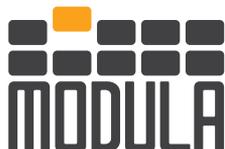
EXPERIENCE LEVELS

Use this key along with the Schedule-at-a-Glance to find the education level that meets your needs.

- **Basic** - Recommended for the attendee who is new to the industry or needs a refresher on the topic.
- **Intermediate** - Designed for the attendee who already has a basic understanding of the subject matter.
- **Advanced** - For the attendee with several years of experience who is seeking more in-depth information.

CONFERENCE TRACK SPONSORS:

AUTOMATION/ROBOTICS



SMART MANUFACTURING

