

TECHNOLOGY	8:30 - 9:30 AM	10:00 - 11:00 AM	12:00 - 1:00 PM	1:30 - 2:30 PM	3:00 - 4:00 PM
3D/Additive Manufacturing		F14: Fundamentals of Additive Manufacturing and the 7 Processes	NEW! F27: Using 3D Additive as a Tool to Enable Changes in Production Efficiently	F40: Business Case for Additive Manufacturing	NEW! F53: The Four Critical Frameworks to Scale Up Additive Manufacturing
Automation		F15: Low-Cost Automation through Collaboration and Cost-Effective Solutions	F28: Customizable and Scalable Automation Solutions for Mid-Sized Manufacturers	F41: Robotic Lasers, Handheld to Cobots - The Journey	F54: Cobots – the Automation Answer for Small – and Mid-sized Fabricators
Cutting	NEW! F03: IoT for Plasma: How Connected Systems and Software Can Increase Uptime and Improve Productivity	F16: The Most Versatile Waterjet Machine Tool with Endless Applications	NEW! F29: Waterjet Maintenance - Driving Up Time		
Forming & Fabricating	F04: Press Brakes for Engineers 2024	F17: Press Brake Technology	NEW! F30: Tube Bending/Forming Technology	F43: Tube & Pipe Advancements	NEW! F56: Safe Efficient Bending: The Smart Light Curtains Solution
	F05: Coil Blanking and Storage Solutions	F18: In-line-Punching & Cutoff Dies; What Can Be Done to Increase Value to Your Roll Forming Lines	F31: Roll Forming Tonnage and Lubricants	NEW! F44: Laser Cutting for Coils: Enhancing Precision, Speed, and Quality in Manufacturing	
Job Shop	WS01: How to Adapt Lean for Job Shops: A Boot Camp for Fabricators (8:00-11:30 AM)		NEW! F32: Digital Transformation Made Easy - Quick, Low Cost, Low Risk Strategies	NEW! F45: ERP Report Card - Setting Priorities and Assessing ROI	NEW! F58: Strategic Execution and Meeting Mastery: The System for Effective Leadership and Productivity
	NEW! F07: Unlocking Capital: Revenue Boosting Techniques for Growth	F20: Manufacturing Money - All You Need to Know About Grants to Support Manufacturing Projects	NEW! F33: Navigating Explosive Growth: Insights from a Fifth-Generation Leader Who Realized 100x Revenue Growth	F46: Strategic Tax Planning and Legislative Policies for Business Growth	NEW! F59: Risk Management for Manufacturing Executives
Laser	NEW! F08: Precision Pulsed Laser Technology: A Cutting-Edge Approach to Material Processing	NEW! F21: Laser Joining for Battery Trays & Application	NEW! F34: Latest Innovations of Laser Blanking Lines	NEW! F47: Influence the Performance, Efficiency & Quality of Your Laser Cutting System	F60: Laser Beam Optics for Enhanced Laser Brazing: Principles and Applications
Management	NEW! WS02: Mastering the Craft: Leading with Resilience (8:30 AM-12:30 PM)			NEW! F49: Key Qualities for Effective Leadership: The 5-Step Approach	F62: Delegation Strategies to Be a More Effective Manager and to Develop Your People
Marketing & Sales	NEW! F09: How AI is Reshaping the Sales & Marketing Landscape	NEW! F22: 4 Strategies For Utilizing Marketing Automation To Achieve WOW Results	NEW! F35: Industrial Marketing Strategies in 2025: A Playbook for Machinery, Capital Equipment, and Contract Manufacturers	NEW! F48: Business Builders: Business Growth in an Uncertain Economy	NEW! F61: Grow with Resilient Manufacturing Sales and Marketing Strategies
Robotics	NEW! F12: Finding Your "Why" & Your First In-House Robotic Project	F25: Successful Automation Strategies: Fast, Wide Scale Implementation for Small or Global Organizations	WS03: Getting Started in Industrial Robotics Workshop (12:00 - 4:00 PM)		
Smart Manufacturing	NEW! F11: Smart Manufacturing Bootcamp: Building a Competitive Advantage	F24: Digital Twin for Your Shop Floor: Using Simulation to Predict Production's Future	F37: Reaching Zero Downtime and Zero Waste with Industry 4.0	NEW! F50: Navigating Efficiency: Cost-Effective RTLS Implementation with UWB Technology	NEW! F63: From Insight to Action: The Business Blueprint for IoT Success With Case Study
Stamping			S03: Servo-Hydraulic Press Not Only Saves Energy	S04: Stamping Lubricant Consolidation with a Focus on Health & Safety	S05: Achieving World-Class Toolroom Performance using Metalworking Fluids
				S19: Progressive Die Design: Engineering Principles and Design Guidelines	S20: Progressive Die Design: Evaluating Strip Layouts
Workforce Development	NEW! F13: How to Use an Association to Benefit Your Company?	F26: It's a Lack of Workforce Readiness that is Holding Manufacturing Back, Building a Talent Plan for the Future	NEW! F39: Your Hiring Playbook to Attract MORE Applicants with a Defined Company Culture	NEW! F52: How to Assess, Develop and Train Your Next Generation of Leaders	NEW! F65: Retention Reloaded: Engaging Millennials & Gen Z in the Workplace

	8:00 - 9:30 AM	10:00 - 11:30 AM	12:00 - 1:30 PM	1:00 - 2:30 PM	3:00 - 4:30 PM
CCAI Finishing		NEW! C11: All Aboard: An Interactive Trip Through the Powder Coating Process		C21: ABC's of Finishing System Design	NEW! C31: Use Your Tools Wisely
		NEW! C12: Enhancing Productivity and Precision: Optimal Masking and Racking Strategies		NEW! C22: Choose Your Own Adventure: Selecting a Chemistry For Your Pretreatment	NEW! C32: Evaluating Oven Efficiencies and Curing Solutions
		NEW! C13: Sustainability & Decarbonization for Industrial Finishing – Are They on Your Company's Radar?		NEW! C23: Optimizing Operations Using Advancements in Transfer Efficiency and Low Cure Powders	NEW! C33: How Sustainability Drives Powder Coating Usage

AWS Welding	W1: Decoding the API 1104 Code: A Comprehensive Guide				8:00 AM - 12:00 PM
	W2: Radiographic Testing and the Role of the CWI: Ethical Considerations and Best Practices				3:00 PM - 4:00 PM
	W3: Innovate to Automate				9:00 AM - 1:00 PM
	W4: Practical Welding Metallurgy				8:00 AM - 4:00 PM
	W5: Weld-Ed Conference: Improving Welding Education and Training				8:00 AM - 4:00 PM
	W6: 7th International Conference on Electron Beam Welding, IEBW 2024 - Day 1				8:00 AM - 4:00 PM
	W16: Professional Program - Monday				12:00 PM - 5:00 PM
W16: Professional Program - Tuesday				7:00 AM - 5:00 PM	

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

TECHNOLOGY	8:30 - 9:30 AM	10:00 - 11:00 AM	12:00 - 1:00 PM	1:30 - 2:30 PM	3:00 - 4:00 PM
3D/Additive Manufacturing	NEW! ■ F66: Uncovering Metal Potential: How 3D is Revolutionizing Production with Metal 3D Printing	NEW! ■ F79: Robotic Integration and Automation in Metal Additive Manufacturing	NEW! ■ F92: Using Advanced Materials & Processes in 3D Metal Printing (FSAM)	NEW! ■ F105: Scale Up & Revolutionize 3D Printing	■ F118: Environmental Conditions for 3D Additive Manufacturing
Automation	NEW! ■ F67: Introduction to Flexible and Custom Automation in Manufacturing	NEW! ■ F80: Limiting Risk and Improved Security for PLCs	NEW! ■ F93: Strategies for Success: Scaling Business Through Advanced Robotic Automation	NEW! ■ F106: Expanding Your Reach – Increasing the Work Envelope of 6-axis Robots Using Tracks and Gantries	NEW! ■ F119: The Data Science Journey: A Sustainable Path from Connected Devices to an Artificial Intelligence (AI) Ecosystem
Cutting	NEW! ■ F68: Cutting Strategies with Abrasive Waterjet				■ F120: Oxyfuel vs. Manual Plasma Cutting – Or Both
Forming & Fabricating	■ F69: Pipe Welding – The World of the Imperfect Preparations	NEW! ■ F82: Press Brake Automation	NEW! ■ F95: Unlocking the Future of Manufacturing: The Power of Press Brake Automation	NEW! ■ F108: Design for Manufacture - Panel Benders	
	■ F70: Roll Forming Basics and Justification	■ F83: Addressing Modern Day Materials in Roll Forming Processes	■ F96: Slitting and Processing Thin and Surface Critical Materials	NEW! ■ F109: The Unexpected Possibilities of Roll-Forming	NEW! ■ F122: Roll Form Tooling Set Up and Trouble Shooting
Job Shop	■ F71: Revealing and Solving the Invisible Problem that Plagues All Job Shops	■ F84: Estimating and Job Costing in an Ever-Changing Environment	■ F97: Inflation Fix: How Worker's Inflate Production to Inflate Their Pay	■ F110: Strategies to Maximize Productivity & Overcoming Labor Shortages	NEW! ■ F123: AI and UI/UX--The Acronyms that Will Upend the Processes and Procedures in a Job Shop
	■ F72: Maximizing The Value Of Your Manufacturing Company	NEW! ■ F85: Opportunities for Growth & Profitability Using AI	NEW! ■ F98: Succession Planning or Exit Strategy for Your Business	■ F111: Innovative Manufacturers: To Patent or Not to Patent	NEW! ■ F124: Fabricating the Future: How AI Can Increase Your Bottom Line and How Cybersecurity Hygiene Can Protect It
Laser	■ F73: How to be Successful in Your Laser Joining Applications	NEW! ■ F86: Handheld Laser Welding: Latest Developments and Future Outlook	NEW! ■ WSO4: 2024 Laser Fabrication Workshop (12:00 - 4:00 PM)		
Management			■ F101: Leadership in the 21st Century - There is Nothing Artificial About It	■ F114: Blue-Collar Leadership & Teamwork: Traits of High Impact Players	
Marketing & Sales	NEW! ■ F74: Maximize Growth with CRM & AI Strategies	■ F87: Inbound Marketing 101 Workshop: Create a 2025 Strategy Template	NEW! ■ F100: Scoring Big in Sales: Best Practices to Position Your Business Above Your Competitors	NEW! ■ F113: Enter the Adventurous Demand Generation for Industrial Marketers	■ F126: Marketing Doesn't Have To Suck: 3 Simple Skills You Need to Magnetize Your Target Audience
Robotics	NEW! ■ F77: How Robotic Solutions Create Better Work Environments, Help Attract New Age Talent, and Increase Your Revenue	NEW! ■ F90: Worker-Centric Mobile Robot Integration: Unlocking Manufacturing Excellence	NEW! ■ F103: Assessing the Future: Robot Risk Assessment		NEW! ■ F129: Integration of New AGV/AMR Technologies in Existing Manufacturing Lines and Processes
Smart Manufacturing	NEW! ■ F76: Asset Investment & Effective Demand Planning	NEW! ■ F89: Job Shop Total Transformation	NEW! ■ F102: How to Improve Your Production with Detailed Data	■ F115: Driving Manufacturing Innovation with AI-Powered Smart Robotic Cells in High-Mix Surface Finishing Applications	NEW! ■ F128: Leveraging AI for Digital Workers & Automation
Stamping	■ S06: Sensors for Die Protection - Make Die Crashes a Thing of the Past		■ S08: Automatic In-Die Part Quality Monitoring & Tool Adjustments	NEW! ■ S09: Ready for the Future? A Look at Press Automation	
		NEW! ■ S22: Best Practices Towards Dimensional Compliance of Stamped Panels	■ S23: Deep Drawing Cylindrical Shells: Tooling Principle and Cost Estimating Guidelines	■ S24: Deep Drawing Rectangular Box Shells: Tooling Principles and Design Guidelines	
Workforce Development	NEW! ■ F78: Becoming an Employer of Choice: How to Find & Keep the Employees You Need	NEW! ■ F91: Aligning Performance and Growth: Integrating Reviews with Career Development in Manufacturing	■ F104: Five Steps to Creating a Successful Career Pathing Program in Your Company	NEW! ■ F117: How to Identify and Build Your Next Generation of Leaders	■ F130: Blue-Collar Leadership & Culture: The 5 Components for Building High Performance Teams

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CCAI Finishing	■ C41: Batch vs. Automated Finishing Systems: Which is Right for You?	NEW! ■ C51: Down and Dirty: Cleaning Up Your Pretreatment Processes		NEW! ■ C61: Consistency Across Unconventional Substrates: Achieving Your Specification Goals	
	NEW! ■ C42: Forging New Frontiers: Robotics and Automation on Finishing Lines	■ C52: How to Choose the Right Protective Coating		NEW! ■ C62: You Don't Know Me from Atom(ization)	
	NEW! ■ C43: Color Change Flexibility: To Infinity and Beyond!	■ C53: An Interactive Exploration of Infrared Curing for Finishing Applications		NEW! ■ C63: Consolidating Data for Effective Process Management	

AWS Welding	W6: 7th International Conference on Electron Beam Welding, IEBW 2024 - Day 2	8:00 AM - 4:00 PM
	W7: Exploring AWS National Guideline Standards for Welding Apprenticeships	10:00 AM - 11:30 AM
	W8: Welding Workforce: Trends, Opportunities, and AWS Foundation Impact	2:00 PM - 3:00 PM
	W9: Building a Prequalified AWS D1.1 Welding Procedure	8:00 AM - 5:00 PM
	W10: Weld Engineering for the Non-Engineer (Engineers Welcome Too)	8:00 AM - 12:00 PM
	W11: Exploring AWS D1.6: Stainless Steel Welding and Applications	8:00 AM - 4:00 PM
	W12: Designing Products to Survive Corrosion; Geometry and Materials	8:00 AM - 10:00 AM
	W13: Why Surface Preparation is important and Reading and Understanding Specifications & Standards for Inspectors!	10:30 AM - 12:30 PM
	W14: Foundations of Quality: Advanced Inspection Equipment and Reporting	1:00 PM - 3:00 PM
W16: Professional Program - Wednesday	7:00 AM - 5:00 PM	

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3D/Additive Manufacturing	NEW! ■ F131: Managing Materials for Finishing 3D Additive Manufacturing	NEW! ■ F144: QC Steps Towards Polymer 3D Printing Standardization & Production			
Automation	NEW! ■ F132: Modernizing a Fabricator's Technology Systems: Accounting for Risk, Reward & Technical Debt	NEW! ■ F145: Integrating Innovation: The Evolution of Sensory Technology and Machine Control in Modern Manufacturing	NEW! ■ F158: AI and Data: the Dynamic Duo of Manufacturing Innovation How AI is Driving Manufacturing Competitiveness	NEW! ■ F171: Harnessing Efficiency and Precision: The Advancement of Welding Automation	
Cutting	NEW! ■ F133: Advancements in Precision Cutting Technologies: From Oxy-Fuel to Fiber Lasers & 3-D Challenges	■ F146: 3D Waterjet Cutting: The Next Dimension	NEW! ■ F159: Differences in The Cutting Technologies to Help Buyers Make Informed Decisions		
Forming & Fabricating	NEW! ■ F134: Preparing for Advanced Sheet Metal Manufacturing	NEW! ■ F147: Design for Manufacture – Punch Sheer Combination Machines	NEW! ■ F160: Design for Manufacturing – A Case Study, Real Life Examples of How Part Redesign Can Improve Your Production		
		NEW! ■ F148: Methodical Troubleshooting - A Step by Step Approach to Diagnosing Root Causes Associated with Rollforming Production	NEW! ■ F161: Combustible Dust Hazards and Abatement Techniques	■ F174: Preventing Dust Disasters: Combustible Dust Safety for Metalworking	
Job Shop	NEW! ■ F136: An Open Model-To-Fabrication Ecosystem for MEP and Structural Fabricators, Software Suppliers, and Machine Manufacturers	NEW! ■ F149: Job Shop Pricing Playbook	NEW! ■ F162: Advancing Quality Management: Integrating AI for Continuous Improvement		■ F188: Executing to Win - Setting the Team Up for Success
	NEW! ■ F137: How Manufacturers Shift from Reactive to Proactive Management	NEW! ■ F150: Enable Team Members for Successful Partnerships With AI	NEW! ■ F163: Supply Chain Transformation - From Globalization to Regionalization	NEW! ■ F176: Learn How to Turn Quoting Estimator Into a Super Role: Automate Many Processes for Your Business From Model to Manufacturing	■ F189: Maximizing Manufacturing Success: The Essential Role of Product Management in Driving Value
Management	NEW! ■ F140: Building Resilient and Compassionate Trauma-Informed Leaders	NEW! ■ F153: Leadership Transformation: From Boss to Inspirational Leader in Manufacturing			
Marketing & Sales	NEW! ■ F139: Amplifying Manufacturing Sales & Marketing Through Podcast, Video & Content Creation		NEW! ■ F165: Leverage Google Ads & AI for Growth	NEW! ■ F178: Advanced LinkedIn Strategies to Stand Out	NEW! ■ F191: Amplify Your Reach: Optimizing Web Presence & Decoding Metrics for Strategic Growth
Robotics	■ F142: Optimizing Your Welding Automation & Break Through in Structural Steel	■ F155: Cobots For Welding Operations	NEW! ■ F168: Company Benefits Through Deploying AI-Driven Grinding and Sanding Robots		
Smart Manufacturing	NEW! ■ F141: Increase Productivity & Connecting The Fabrication Process With Software Automation	■ F154: Managing Threats For Cyber, Labor Compliance & Sustainability	■ F167: Automated Scheduling & Connecting the Entire Business, From Office to Shop Floor	NEW! ■ F180: Building Tomorrow's Workforce: Exploring the Industrial Metaverse	NEW! ■ F193: Disrupting Information Flow and Data Analytics with Integrated Software Technologies to Forecast Smooth Operations in Challenging Times
Stamping	■ S11: Solving Progressive Die Problems	■ S12: Strengthening Die Maintenance Programs			
Workforce Development	NEW! ■ F143: Roadmap for Success by Promoting Diversity & Inclusion	NEW! ■ F156: Leadership Secrets for Retaining Top Talent	NEW! ■ F169: Trade Schools & Industry Convergence at The Forefront of Workforce	NEW! ■ F182: Cultivating Excellence: A Synergy of Performance and Culture	

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CCAI Finishing	NEW! ■ C71: Maintaining Your Finishing Line	■ C81: See It, Touch It, Fix It			
	NEW! ■ C72: Water Conservation Through Reuse Solutions				
	NEW! ■ C73: New Generations of Powder Coating Technology				

AWS Welding	W15: Unlocking AWS A2.4: Welding Symbols and Applications				8:00 AM - 12:00 PM
	W16: Professional Program - Thursday				7:00 AM - 1:00 PM

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