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MANUFACTURING & INDUSTRY 4.0

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- 3D Printing and Additive Manufacturing Tools
- 3D printing technology and operation
- 5G Networks and Manufacturing Automation
- 5G-enabled Manufacturing Tools and Processes
- Adaptive Machining Tools and Strategies
- Additive Manufacturing: Principles and Applications
- Adhesives and Sealants in Manufacturing and Production
- Advanced Assembly Techniques and Tools
- Advanced Automation and Control Systems for Manufacturing
- Advanced Business Continuity Planning Tools and Techniques
- Advanced CAD/CAM/CAE Software
- Advanced Change Management Tools and Techniques
- Advanced Corporate Social Responsibility Tools and Techniques
- Advanced Customer Service and Support Tools and Techniques
- Advanced Data Analytics for Production Planning and Control
- Advanced Design for Manufacturing (DFM) Techniques
- Advanced Digital Manufacturing Platforms
- Advanced EDM and ECM Tools and Techniques
- Advanced Environmental Management Tools and Techniques
- Advanced Ergonomics and Safety Tools

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- Advanced Human-Machine Interfaces (HMIs) for Manufacturing
- Advanced Industrial Design and Innovation Tools
- Advanced Industrial IoT (IIoT) Systems
- Advanced Intellectual Property Management Tools and Techniques
- Advanced Inventory Optimization
- Advanced Laser and Plasma Cutting Tools
- Advanced Lean Manufacturing Tools and Techniques
- Advanced Machine Learning Techniques for Quality Control
- Advanced Manufacturing Technologies
- Advanced Marketing and Sales Techniques for Manufacturing
- Advanced Material Handling Equipment and Tools
- Advanced Materials and Composites Manufacturing
- Advanced Measuring and Calibration Tools
- Advanced MEMS and Microfabrication Tools
- Advanced Metalworking Tools and Techniques
- Advanced Project Management Tools and Techniques
- Advanced Quality Management Tools and Techniques
- Advanced Risk Management Tools and Techniques
- Advanced Robotics and Automation
- Advanced Robotics in Manufacturing

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- Advanced Simulation and Modeling Tools for Manufacturing
- Advanced Six Sigma Tools and Techniques
- Advanced Statistical Process Control (SPC) Tools
- Advanced Supply Chain Management Tools and Techniques
- Advanced Vision Systems for Quality Control and Inspection
- Agile Manufacturing and Production
- Agile Project Management tools and techniques
- Artificial Intelligence (AI) in Manufacturing and Production
- Assembly and Packaging in Manufacturing and Production
- Asset Management tools and techniques
- Augmented Operator Assistance (AOA)
- Augmented Reality (AR) and Virtual Reality (VR) in Manufacturing and Production
- Augmented Reality in Manufacturing and Production
- Augmented Reality Tools for Manufacturing
- Autonomous Maintenance (AM)
- Autonomous Manufacturing Systems
- Autonomous Mobile Robots (AMRs) in Manufacturing and Production
- Benchmarking tools and techniques
- Big Data Analytics for Manufacturing and Production

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- Biomanufacturing Tools and Techniques
- Blockchain for Supply Chain Management and Traceability
- Blockchain in Supply Chain Management and Manufacturing
- Budgeting in Manufacturing and Production
- Business Process Reengineering (BPR) tools and techniques
- CAD software (e.g. SolidWorks, AutoCAD, Inventor)
- CAM software (e.g. Mastercam, GibbsCAM, PowerMill)
- Capacity Planning tools and techniques
- Capital Equipment Justification in Manufacturing and Production
- Carbon Footprint Analysis
- Carbon Footprinting in Manufacturing and Production
- Casting and Molding in Manufacturing and Production
- Change Management tools and techniques
- Chemical Handling and Storage
- Circular Design and Business Models
- Circular Economy in Manufacturing and Production
- Cleaning Validation
- Cloud Computing for Manufacturing and Production
- Cloud-based Design and Manufacturing Collaboration Tools

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- CNC Machine software
- Co-Creation and Co-Design
- Cognitive Manufacturing and Production
- Collaborative Manufacturing and Production
- Collaborative Planning, Forecasting and Replenishment (CPFR)
- Collaborative Robots (Cobots) in Manufacturing and Production
- Communication in Manufacturing and Production
- Composites in Manufacturing and Production
- Computational Fluid Dynamics (CFD) software
- Computer Integrated Manufacturing (CIM)
- Computer System Validation
- Computer-Aided Design (CAD) software
- Computer-Aided Design and Drafting (CADD)
- Computer-Aided Manufacturing (CAM)
- Condition Monitoring and Predictive Maintenance tools and techniques
- Conflict Resolution in Manufacturing and Production
- Contamination Control in Manufacturing and Production
- Continuous Improvement in Manufacturing and Production
- Control Charts tools and techniques

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- Coordinate measuring machines (CMM)
- Corporate Social Responsibility in Manufacturing and Production
- Cost Management tools and techniques
- Cost Reduction in Manufacturing and Production
- Cradle-to-Cradle (C2C) Design
- Creativity and Innovation in Manufacturing and Production
- Cross-Border E-Commerce and Logistics
- Customer Experience Management in Manufacturing and Production
- Customs Compliance and Documentation
- Cyber-Physical Systems (CPS)
- Cybersecurity for Manufacturing and Production
- Data Analysis tools and techniques
- Data Analytics in Manufacturing and Production
- Decision Making in Manufacturing and Production
- Demand Planning and Forecasting
- Demand-Driven Material Requirements Planning (DDMRP)
- Design for Environment (DfE)
- Design for Manufacturing and Assembly (DFMA) tools and techniques
- Design for Manufacturing and Production (DFM/DFP)

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- Design of Experiments (DOE) Tools and Techniques
- Digital Manufacturing Platforms
- Digital Marketing and E-Commerce for Manufacturing and Production
- Digital Thread and Digital Continuity
- Digital Thread and Digital Twin Integration
- Digital Transformation in Manufacturing and Production
- Digital Twin Technology in Manufacturing and Production
- Digitalization and Data Integration in Manufacturing and Production
- Diversity and Inclusion in Manufacturing and Production
- Eco-Design and Eco-Innovation
- Electrical Safety Training and Equipment
- Emergency Preparedness Tools and Techniques
- Emergency Response Planning and Procedures
- Energy conservation and efficiency
- Energy Efficiency in Manufacturing and Production
- Energy Management in Manufacturing and Production
- Enterprise Resource Planning (ERP) software
- Environmental impact assessment and reporting
- Environmental Management in Manufacturing and Production

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- Environmental management systems (ISO 14001, EMAS, etc.)
- Equipment Qualification and Validation
- Ergonomics in Manufacturing and Production
- Ethics in Manufacturing and Production
- Facility Planning tools and techniques
- Failure Analysis in Manufacturing and Production
- Failure Modes and Effects Analysis (FMEA)
- FDA Regulations for Medical Devices
- Financial Analysis in Manufacturing and Production
- Financial Reporting in Manufacturing and Production
- Finite Element Analysis (FEA) software
- Fire safety training and equipment
- Fishbone Diagrams tools and techniques
- Flexible Manufacturing and Production
- Free Trade Agreements and Regional Trade Blocs
- Global Trade and Compliance
- Good Manufacturing Practice (GMP)
- Green Manufacturing and Production
- Hazard communication (HazCom) training



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- Hazard Identification and Risk Assessment (HIRA)
- Hazardous Materials Handling in Manufacturing and Production
- Hazardous Waste Management and Disposal
- HAZOP Studies
- Heat Treatment in Manufacturing and Production
- High-Performance Ceramics and Coatings for Manufacturing
- High-Speed Machining Tools and Techniques
- Histograms tools and techniques
- Human Factors Engineering in Manufacturing and Production
- Human Resources in Manufacturing and Production
- Human-Machine Interface (HMI) software
- Human-Robot Collaboration and Interaction
- Incident Investigation tools and techniques
- Industrial Engineering in Manufacturing and Production
- Industrial Hygiene in Manufacturing and Production
- Industry 4.0: Smart Manufacturing and Production
- Injection molding machine operation and programming
- Intellectual Property Protection in Manufacturing and Production
- Internet of Things (IoT) Connected Manufacturing Tools

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- Introduction to Manufacturing and Production: History and Overview
- Inventory Management in Manufacturing and Production
- ISO 13485:2016 Medical Devices - Quality Management System
- ISO 14001:2015 Environmental Management System
- ISO 22301:2019 Business Continuity Management System
- ISO 26000:2010 Social Responsibility
- ISO 27001:2013 Information Security Management System
- ISO 31000:2018 Risk Management
- ISO 45001:2018 Occupational Health and Safety Management System
- ISO 50001:2018 Energy Management System
- ISO 9001:2015 Quality Management System
- ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories
- Job hazard analysis (JHA)
- Just-In-Time (JIT) Manufacturing and Production
- Just-in-Time (JIT) tools and techniques
- Kaizen in Manufacturing and Production
- Kanban Tools and Techniques
- Knowledge Management tools and techniques
- Lean Manufacturing and Production

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- Lean Supply Chain Management
- LEED certification process and requirements
- Life Cycle Assessment (LCA) in Manufacturing and Production
- Life cycle costing (LCC) tools and methodologies
- Lockout/tagout (LOTO) procedures
- Logistics and Transportation in Manufacturing and Production
- Low-Carbon Manufacturing and Production
- Machine Learning in Manufacturing and Production
- Machine Safety in Manufacturing and Production
- Machine vision and inspection systems
- Machining in Manufacturing and Production
- Maintenance and Repair in Manufacturing and Production
- Maintenance Management tools and techniques
- Maintenance Planning and Scheduling tools and techniques
- Maintenance Work Management tools and techniques
- Manufacturing and Production Intellectual Property
- Manufacturing and Production Patents and Trademarks
- Manufacturing and Production Processes and Techniques
- Manufacturing and Production Quality Control and Assurance

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- Manufacturing and Production Safety
- Manufacturing and Production Trade Secrets
- Manufacturing Execution Systems (MES)
- Marketing and Sales in Manufacturing and Production
- Mass Customization in Manufacturing and Production
- Materials Requirement Planning (MRP) tools and techniques
- Materials Science in Manufacturing and Production
- Materials selection and substitution for sustainability
- Materials Simulation software
- Measurement System Analysis (MSA)
- Mechatronics and control systems
- Metal casting (sand casting, investment casting, die casting)
- Metallurgy in Manufacturing and Production
- Metrology and Calibration in Manufacturing and Production
- Nanotechnology-enabled Manufacturing Tools
- Natural Language Processing (NLP) in Manufacturing and Production
- Negotiation in Manufacturing and Production
- Next-generation Welding and Joining Techniques and Tools
- Non-Destructive Testing (NDT) in Manufacturing and Production

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- Non-destructive testing (NDT) techniques
- Occupational Health and Safety Management Systems (ISO 45001, OHSAS 18001, etc.)
- Performance Management in Manufacturing and Production
- Personal protective equipment (PPE) selection and use
- Plant Engineering and Facilities Management in Manufacturing and Production
- Poka-Yoke tools and techniques
- Precision Grinding and Finishing Tools
- Predictive Maintenance and Condition-Based Monitoring
- Predictive Maintenance in Manufacturing and Production
- Problem Solving in Manufacturing and Production
- Process Analytical Technology (PAT)
- Process Capability Analysis tools and techniques
- Process Development and Validation
- Process Mapping tools and techniques
- Process Safety Management (PSM)
- Procurement and Purchasing in Manufacturing and Production
- Product Costing and Pricing
- Product Design and Development
- Product Lifecycle Management (PLM) software

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- Product Serialization and Traceability
- Product-as-a-Service (PaaS)
- Production Control and Scheduling Tools
- Production Planning and Control
- Production Planning and Scheduling in Manufacturing and Production
- Production Scheduling
- Productivity Improvement in Manufacturing and Production
- Programmable Logic Controllers (PLC) software
- Project Management in Manufacturing and Production
- Quality Assurance in Manufacturing and Production
- Quality Control in Manufacturing and Production
- Quality Function Deployment (QFD) tools and techniques
- Quality Management Systems (ISO 9001, AS9100, etc.)
- Quality Risk Management (QRM)
- Rapid Prototyping Tools and Techniques
- Reliability Engineering in Manufacturing and Production
- Reliability-Centered Maintenance (RCM) tools and techniques
- Remote Monitoring and Control of Production Systems
- Reshoring and Nearshoring Trends

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- Risk Management in Supply Chains
- Robotic Arm Programming and Operation
- Robotics and Automation in Manufacturing and Production
- Robotics in Manufacturing and Production
- Root Cause Analysis (RCA)
- Root Cause Failure Analysis (RCFA)
- Safety Instrumented Systems (SIS)
- Sales and Operations Planning (S&OP)
- SCADA systems
- Scatter Diagrams tools and techniques
- Servitization in Manufacturing and Production
- Sheet Metal Fabrication in Manufacturing and Production
- Six Sigma and Lean Manufacturing Tools and Methodologies
- Six Sigma in Manufacturing and Production
- Six Sigma Methodology in Manufacturing
- Smart Factory Systems and Automation
- Smart Grid Technology and Manufacturing Operations
- Smart Machining Centers and Robots
- Smart Materials and Composites for Manufacturing

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- Smart Sensors and Actuators for Manufacturing
- Social Life Cycle Assessment (S-LCA)
- Social responsibility and ethics in manufacturing and production
- Spill Response Planning and Procedures
- Statistical Process Control (SPC)
- Sterilization Techniques in Manufacturing and Production
- Supplier Relationship Management in Manufacturing and Production
- Supply Chain Analytics and Optimization
- Supply Chain Management in Manufacturing and Production
- Supply Chain Resilience and Agility
- Supply Chain Visibility and Collaboration
- Surface Finishing in Manufacturing and Production
- Surface metrology and profilometry
- Sustainable Manufacturing and Production Practices
- Sustainable Product Design and Development
- Sustainable Supply Chain Management
- Talent Management in Manufacturing and Production
- Tariff and Duty Management
- Team Building in Manufacturing and Production

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- Testing and Inspection in Manufacturing and Production
- Theory of Constraints (TOC) tools and techniques
- Time Management in Manufacturing and Production
- Total Productive Maintenance (TPM)
- Total Quality Management (TQM) in Production
- Training and Development in Manufacturing and Production
- Transportation Optimization and Routing
- Unmanned Aerial Vehicles (UAVs) in Manufacturing and Production
- Validation and Verification in Manufacturing and Production
- Value Stream Mapping in Manufacturing and Production
- Value Stream Mapping tools and techniques
- Vendor Management in Manufacturing and Production
- Virtual Reality (VR) for Training and Simulation
- Virtual Reality in Manufacturing and Production
- Warehouse Automation and Robotics
- Warehouse Management in Manufacturing and Production
- Waste Reduction and Recycling Programs



Contact us

For the best course that you can have,
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