

Operations Management Kruger Manual

Operations Management Kruger: A Comprehensive Guide

Operations management Kruger plays a pivotal role in optimizing the production processes, enhancing efficiency, and ensuring the seamless delivery of products and services within the Kruger enterprise. Whether you're a business owner, a student, or a professional seeking to understand how operations management functions within Kruger, this article provides an in-depth exploration of the strategies, practices, and significance of operations management in this renowned organization.

Understanding Operations Management in Kruger

Operations management (OM) encompasses the administration of business practices aimed at creating the highest level of efficiency possible within an organization. In the context of Kruger, a leading company in the forestry and paper industry, OM involves managing the entire production cycle?from raw material acquisition to the delivery of finished products.

Key Objectives of Operations Management in Kruger:

- Maximizing production efficiency
- Ensuring product quality
- Reducing operational costs
- Enhancing customer satisfaction
- Promoting sustainable and environmentally friendly practices

Kruger's Core Operations and Processes

Kruger operates primarily in the pulp, paper, and packaging sectors. Its core processes include:

1. Forest Management and Raw Material Procurement

- Sustainable harvesting practices
- Reforestation initiatives
- Supply chain management for raw materials

2. Pulp and Paper Production

- Mechanical and chemical pulping processes
- Paper manufacturing and finishing
- Quality control protocols

3. Packaging and Distribution

- Manufacturing of packaging products
- Warehousing and logistics
- Distribution to markets and clients

Strategies in Operations Management at Kruger

Kruger employs several strategic practices to maintain operational excellence:

1. Lean Manufacturing Principles

- Eliminating waste
- Streamlining workflows
- Continuous improvement (Kaizen)

2. Technology and Automation

- Implementing advanced manufacturing technologies
- Using automation to reduce manual errors
- Data analytics for process optimization

3. Sustainability and Environmental Responsibility

- Reducing carbon footprint
- Recycling and waste management
- Certifications like FSC and PEFC

4. Supply Chain Optimization

- Strategic supplier partnerships
- Just-in-time inventory management

- Risk mitigation planning

Operational Challenges Faced by Kruger

Despite its advancements, Kruger faces several operational challenges:

- Environmental Regulations: Navigating complex forestry and environmental laws
- Market Fluctuations: Price volatility in raw materials and finished products
- Supply Chain Disruptions: Global events affecting raw material supply and logistics
- Sustainability Expectations: Balancing profitability with environmental conservation
- Technological Upgrades: Investing in modern equipment without disrupting production

Best Practices in Operations Management at Kruger

To address its challenges and maintain its competitive edge, Kruger adopts best practices such as:

- Implementing Total Quality Management (TQM): Ensuring product quality across all stages
- Adopting Industry 4.0 Technologies: IoT, AI, and data analytics integration
- Employee Training and Development: Building a skilled workforce
- Sustainable Operations: Incorporating eco-friendly processes
- Continuous Monitoring and Feedback: Using KPIs and performance metrics

Impact of Operations Management on Kruger's Business Success

Effective operations management directly influences Kruger's overall performance by:

- Enhancing productivity and throughput
- Reducing operational costs
- Improving product quality and customer satisfaction
- Supporting sustainable growth
- Enabling rapid adaptation to market changes

The integration of robust OM strategies ensures Kruger remains a leader in its industry, maintaining a balance between profitability and environmental responsibility.

Future Trends in Operations Management for Kruger

Looking ahead, Kruger is poised to adopt emerging trends to further optimize its operations:

- Digital Transformation: Fully leveraging Industry 4.0 tools
- Green Operations: Achieving carbon neutrality and zero waste goals
- Circular Economy Models: Enhancing recycling and reusing materials
- Advanced Data Analytics: Predictive maintenance and demand forecasting
- Global Supply Chain Integration: Strengthening international logistics networks

Conclusion

In summary, operations management Kruger is integral to the company's ongoing success and sustainability. By implementing strategic practices ranging from lean manufacturing to technological innovations, Kruger ensures efficient, environmentally responsible, and customer-centric operations. As the industry evolves, continuous improvement and adaptation in operations management will remain crucial for Kruger's growth and leadership in the forestry and paper sectors.

Keywords for SEO Optimization:

- Operations management Kruger
- Kruger company operations
- Forest management Kruger
- Paper manufacturing processes
- Sustainable operations Kruger
- Supply chain Kruger
- Industry 4.0 Kruger
- Environmental responsibility Kruger
- Lean manufacturing Kruger
- Kruger business strategies

Enhance your understanding of operations management in Kruger and stay updated on industry best practices by exploring further resources and industry reports.

Operations Management Kruger: An In-Depth Analysis of Strategies, Challenges, and Best Practices

In the dynamic landscape of modern business, effective operations management stands as a critical pillar for organizational success. Among the myriad organizations striving for excellence, Operations Management Kruger has garnered significant attention due to its strategic initiatives, operational efficiencies, and industry influence. This comprehensive review aims to dissect the operational frameworks of Kruger, elucidate the challenges it faces, and evaluate its best practices through an investigative lens.

Understanding Kruger's Operational Landscape

Kruger Inc., a prominent player in the pulp and paper industry, has established a reputation for operational excellence. Its operations extend across forestry, pulp and paper manufacturing, and packaging sectors, with a footprint spanning North America and beyond. Analyzing Kruger's approach to operations management reveals a multifaceted strategy aimed at balancing sustainability, efficiency, and innovation.

Key facets of Kruger's operations include:

- Sustainable Forestry Practices: Emphasizing responsible harvesting to ensure long-term resource availability.
- Integrated Manufacturing Processes: Coordinating forestry, pulp production, and paper manufacturing for streamlined workflows.
- Technological Adoption: Implementing cutting-edge machinery and process automation to enhance productivity.
- Supply Chain Optimization: Managing logistics and inventory to meet market demand efficiently.

These elements collectively underpin Kruger's operational success, yet they also pose unique challenges that merit a detailed examination.

Operational Strategies Employed by Kruger

1. Sustainable Resource Management

Kruger's commitment to sustainability is embedded within its operations management strategy. The company adopts responsible forestry practices that include:

- Continuous forest management plans aligned with environmental certifications like FSC (Forest Stewardship Council).
- Reforestation programs to mitigate ecological impact.
- Monitoring of biodiversity and habitat preservation.

By integrating sustainability into its core operations, Kruger not only complies with regulatory standards but also enhances its brand reputation among environmentally conscious consumers.

2. Lean Manufacturing and Process Optimization

Kruger employs lean principles to minimize waste and maximize value. Key initiatives include:

- Just-in-time inventory management to reduce storage costs.
- Continuous process improvement cycles such as Kaizen.
- Standardization of procedures to ensure quality consistency.

This focus on efficiency results in cost savings and improved product quality, essential for maintaining competitiveness.

3. Technological Integration and Innovation

The adoption of advanced technologies is pivotal in Kruger's operations management. Examples include:

- Automation of pulp and paper mills with robotics.
- Real-time monitoring systems for equipment performance.
- Data analytics for predictive maintenance and demand forecasting.

Technological innovation enables Kruger to respond swiftly to market fluctuations and operational disruptions.

4. Supply Chain and Logistics Management

Optimizing the supply chain involves:

- Strategic warehouse placements.
- Collaborative relationships with suppliers and distributors.
- Use of transportation management systems (TMS) to optimize routes and reduce emissions.

Effective supply chain management ensures timely delivery and cost efficiency.

Challenges Facing Kruger's Operations Management

While Kruger's operational strategies are robust, several challenges threaten to undermine its efficiency and growth prospects.

1. Environmental Regulations and Climate Change

Stringent environmental policies require continuous adaptation. Climate change impacts, such as unpredictable weather patterns, pose risks to forestry operations and raw material availability.

2. Market Volatility and Demand Fluctuations

Global economic shifts influence demand for pulp and paper products. Kruger's operations must remain agile to adjust production levels accordingly.

3. Technological Disruption

Rapid technological advancements demand ongoing investment. Failure to keep pace could lead to obsolescence or reduced competitive advantage.

4. Supply Chain Disruptions

Global factors, such as transportation strikes or geopolitical tensions, can disrupt supply chains, increasing costs and delaying deliveries.

5. Workforce Management

Skilled labor shortages and the need for ongoing training in new technologies are persistent issues.

Best Practices and Recommendations for Continuous Improvement

Based on an investigative review of Kruger's operations, several best practices emerge, offering pathways for sustainable growth.

Implementing a Holistic Sustainability Framework

- Expand environmental certification programs.
- Invest in renewable energy sources for operations.
- Foster community engagement and transparency.

Enhancing Technological Adoption

- Increase R&D investments for process innovations.
- Partner with technology firms for tailored solutions.
- Focus on cybersecurity to protect digital assets.

Strengthening Supply Chain Resilience

- Diversify supplier base to mitigate risks.
- Develop contingency plans for disruptions.
- Leverage data analytics for demand prediction.

Fostering a Culture of Continuous Improvement

- Encourage employee participation in process optimization.
- Provide ongoing training and development.
- Establish clear KPIs to monitor progress.

Environmental and Social Responsibility as a Strategic Priority

Embedding sustainability and social responsibility into corporate strategy not only mitigates risks but also opens new market opportunities.

Conclusion: Navigating the Future of Operations Management at Kruger

The operational landscape of Kruger Inc. exemplifies a blend of strategic foresight, technological innovation, and environmental stewardship. While challenges persist, especially amid global uncertainties and ecological imperatives, Kruger's commitment to continuous improvement and sustainable practices positions it favorably for future growth.

For organizations and industry observers, Kruger's operational management offers valuable lessons in integrating efficiency with responsibility. As the industry evolves, embracing digital transformation, fostering resilience, and prioritizing sustainability will be crucial for Kruger and similar enterprises aiming to thrive in a complex global environment.

In summary, Operations Management Kruger exemplifies a comprehensive approach that balances economic imperatives with ecological and social considerations. Its journey underscores the importance of adaptable, innovative, and responsible management practices in sustaining long-term success.

Disclaimer: This analysis is based on publicly available information and industry best practices up to October 2023. For detailed operational data and strategic insights, direct engagement with Kruger Inc. or industry-specific reports is recommended.

Question What are the key principles of operations management at Kruger? Kruger emphasizes lean manufacturing, sustainability, quality control, and continuous improvement to optimize operations and meet customer demands efficiently. How does Kruger implement

sustainability in its operations management? Kruger integrates eco-friendly practices such as waste reduction, energy efficiency, and responsible sourcing to minimize environmental impact while maintaining operational excellence. What role does technology play in Kruger's operations management? Kruger leverages advanced automation, data analytics, and supply chain management software to streamline processes, improve accuracy, and enhance decision-making. How does Kruger ensure quality control in its operations? Kruger employs rigorous quality assurance protocols, regular inspections, and employee training programs to maintain high standards across all production stages. What challenges does Kruger face in operations management, and how are they addressed? Kruger faces challenges such as supply chain disruptions and market fluctuations, which are managed through flexible planning, supplier diversification, and innovation initiatives. How does Kruger align its operations management with corporate sustainability goals? Kruger integrates sustainability metrics into its operational KPIs, promotes eco-friendly practices, and invests in renewable energy to align operational efficiency with environmental responsibility. What are the latest trends in operations management that Kruger is adopting? Kruger is adopting Industry 4.0 technologies, predictive maintenance, and circular economy principles to stay competitive and promote sustainable growth.

Related keywords: operations management, kruger, process optimization, supply chain, quality control, production planning, efficiency improvement, lean manufacturing, workflow analysis, resource allocation

OPERATIONS MANAGEMENT UNDERGRADUATE MAJORS

Operations Management Undergraduate Majors: A Comprehensive Guide

Operations management undergraduate majors are increasingly vital in today's dynamic business environment. As organizations strive to optimize processes, improve efficiency, and deliver value to customers, the demand for skilled professionals in operations management continues to grow. This major offers students a pathway to develop critical skills in overseeing production, managing supply chains, and implementing strategic improvements across various industries. Whether you're interested in manufacturing, service industries, logistics, or healthcare, an undergraduate major in operations management provides a versatile foundation for a successful career.

In this comprehensive guide, we'll explore what operations management undergraduate majors entail, the core curriculum, career opportunities, skills required, and tips for choosing the right program. This information is designed to help prospective students and career changers understand

the significance of this major and how it can shape their professional future.

What is Operations Management?

Operations management is a field focused on designing, overseeing, and improving the processes involved in producing goods and delivering services. It encompasses planning, organizing, and supervising the production and delivery of products and services efficiently and effectively. The goal is to maximize productivity, reduce costs, and enhance quality to meet customer expectations.

Key functions within operations management include:

- Supply chain management
- Quality control
- Inventory management
- Process analysis and improvement
- Capacity planning
- Production scheduling
- Cost analysis

An undergraduate major in operations management equips students with the knowledge and skills necessary to excel in these areas, preparing them for roles that impact organizational performance directly.

Core Curriculum of Operations Management Undergraduate Majors

A typical operations management undergraduate program combines foundational business courses with specialized operations topics. The curriculum is designed to foster analytical thinking, problem-solving, and strategic decision-making.

Fundamental Business Courses

- Principles of Management
- Financial Accounting
- Managerial Accounting
- Business Ethics
- Business Law
- Economics (Micro and Macro)
- Marketing Principles

Specialized Operations Management Courses

- Principles of Operations Management
- Supply Chain Management
- Quality Management
- Production Planning and Control
- Inventory Management
- Operations Strategy
- Data Analytics for Operations
- Project Management
- Lean Manufacturing and Six Sigma
- Systems Simulation and Modeling

Practical and Experiential Learning

- Internships in manufacturing or logistics firms
- Capstone projects addressing real-world operational challenges
- Case studies analysis
- Use of enterprise resource planning (ERP) software

The combination of coursework ensures students gain both theoretical knowledge and practical skills essential for operational roles.

Skills Developed Through an Operations Management Major

Pursuing a major in operations management helps students develop a broad set of skills, including:

- Analytical and problem-solving skills
- Quantitative reasoning and data analysis
- Process optimization techniques
- Strategic thinking and decision-making
- Communication and teamwork abilities
- Technological proficiency with ERP and data analytics tools
- Leadership and project management skills

These competencies are highly valued across industries and can lead to roles with significant responsibility and career growth potential.

Career Opportunities for Operations Management Graduates

Graduates with an operations management degree have diverse career paths available to them. Some of the most common roles include:

Manufacturing and Production

- Operations Manager
- Production Supervisor
- Plant Manager
- Quality Control Coordinator

Supply Chain and Logistics

- Supply Chain Analyst
- Logistics Coordinator
- Procurement Specialist
- Warehouse Manager

Service Industry

- Service Operations Manager (e.g., hospitality, healthcare)
- Customer Service Manager
- Facility Manager

Consulting and Strategy

- Business Consultant specializing in operations
- Process Improvement Analyst
- Management Analyst

Technology and Data Analytics

- Data Analyst for operational data
- Business Systems Analyst
- ERP Implementation Specialist

The versatility of an operations management degree allows graduates to work in manufacturing, healthcare, retail, logistics, consulting, and more.

Advantages of Pursuing an Operations Management Undergraduate Major

Choosing to major in operations management offers numerous benefits:

- Strong employment prospects due to high demand
- Competitive salaries and benefits
- Opportunities for advancement into senior management roles
- Ability to make a tangible impact on organizational efficiency
- Versatility across industries and sectors
- Development of both technical and soft skills

Furthermore, the global nature of supply chains and logistics means that operations professionals often have opportunities to work internationally or in multinational companies.

How to Choose the Right Operations Management Program

Selecting the best program involves considering several factors:

- **Accreditation:** Ensure the school is accredited by recognized bodies such as AACSB or EQUIS, which assures quality education.
- **Curriculum Content:** Look for programs that offer a balance of theoretical knowledge and practical experience, including internships and capstone projects.
- **Faculty Expertise:** Research faculty backgrounds and their involvement in industry or research.
- **Industry Connections:** Programs with strong ties to local industries or corporate partnerships can provide valuable internships and job placements.
- **Facilities and Resources:** Access to modern labs, software, and simulation tools enhances learning experiences.
- **Alumni Network:** A robust alumni network can assist with mentorship and job opportunities.

Future Trends in Operations Management Education

Operations management is a rapidly evolving field, influenced by technological advancements and global economic shifts. Future trends in undergraduate education include:

- Integration of data science and analytics into the curriculum
- Emphasis on sustainability and green operations
- Adoption of Industry 4.0 technologies like IoT and automation
- Focus on agile and flexible operations strategies
- Increased use of simulation and AI-driven decision-making tools

Students interested in operations management should seek programs that adapt to these trends to stay relevant in the job market.

Conclusion

Operations management undergraduate majors provide a solid foundation for students aspiring to work in a critical aspect of business that drives efficiency, quality, and profitability. With a curriculum that blends business fundamentals with specialized technical skills, graduates are well-equipped to pursue diverse careers across industries. As the global economy continues to evolve, the demand for skilled operations professionals is expected to rise, making this a smart choice for students interested in strategic, analytical, and managerial roles.

Choosing the right program involves assessing accreditation, curriculum quality, faculty expertise, and industry connections. By investing in an operations management major, students open the door to a dynamic and rewarding career path that offers both professional growth and the opportunity to make a significant impact on organizational success.

Operations Management Undergraduate Majors: A Comprehensive Investigation into Curriculum, Career Pathways, and Industry Relevance

In the rapidly evolving landscape of global business, the demand for professionals equipped with specialized knowledge in streamlining processes, optimizing resources, and enhancing organizational efficiency has never been greater. Among the academic pathways that prepare students for these challenges, operations management undergraduate majors stand out as a vital discipline. This article provides an in-depth exploration of operations management as an undergraduate major, examining its curriculum structure, skillset development, career prospects, industry relevance, and emerging trends shaping its future.

Understanding Operations Management as an Academic Discipline

Operations management (OM) is the field dedicated to designing, overseeing, and improving the processes involved in producing goods and delivering services. It integrates principles from engineering, business, and logistics to ensure organizations operate effectively and efficiently.

As an undergraduate major, operations management offers students a blend of theoretical

foundations and practical applications, preparing them to address complex operational challenges across diverse industries such as manufacturing, healthcare, retail, and technology.

Curriculum Structure and Core Courses

A typical operations management undergraduate program is structured to build foundational knowledge before progressing to specialized topics and practical applications. The curriculum generally encompasses:

Foundational Business and Management Courses

- Principles of Management
- Business Ethics
- Financial Accounting
- Managerial Accounting
- Microeconomics and Macroeconomics
- Business Communication

Core Operations-Specific Courses

- Operations Strategy
- Supply Chain Management
- Production Planning and Control
- Quality Management and Six Sigma
- Inventory Management
- Logistics and Transportation
- Service Operations Management
- Data Analytics and Decision Modeling

Technical and Analytical Skills Development

- Statistics and Quantitative Methods
- Operations Research
- Information Systems for Operations
- ERP (Enterprise Resource Planning) Systems
- Programming and Data Analytics (e.g., Excel, SQL, Python)

Capstone Projects and Practical Experience

- Real-world case studies
- Internships in manufacturing, logistics, or service sectors
- Simulation exercises and process optimization projects

This structured approach ensures students acquire both the theoretical understanding and practical skills necessary to excel in operational roles.

Key Competencies Developed in Operations Management Programs

Graduates of operations management programs develop a diverse skill set, including:

- Process Optimization: Ability to analyze and improve operational workflows.
- Data Analysis and Decision-Making: Using statistical tools and software to inform strategic choices.
- Supply Chain Coordination: Understanding global logistics, procurement, and distribution.
- Quality Control: Implementing standards and methodologies such as Six Sigma.
- Project Management: Planning, executing, and monitoring projects efficiently.
- Technological Proficiency: Familiarity with enterprise systems (ERP), automation, and emerging technologies.

These competencies prepare students for roles that demand analytical thinking, strategic planning, and operational execution.

Career Pathways and Industry Opportunities

Operations management graduates are highly sought after across multiple sectors. Typical career pathways include:

Manufacturing and Production

- Operations Analyst
- Manufacturing Supervisor
- Production Planner
- Plant Manager

Supply Chain and Logistics

- Supply Chain Analyst

- Logistics Coordinator
- Procurement Specialist
- Distribution Manager

Service Industry Roles

- Service Operations Manager (healthcare, hospitality, retail)
- Quality Assurance Manager
- Customer Service Operations Lead

Consulting and Strategic Roles

- Business Process Consultant
- Operations Strategy Advisor
- Continuous Improvement Specialist

Emerging and Niche Opportunities

- Sustainability and Green Operations
- Industry 4.0 and Automation Specialists
- Data Analytics and Big Data Roles in Operations

According to industry reports, employment growth in operations management-related roles continues to outpace many other business disciplines, driven by technological advancements and globalization.

Industry Relevance and Market Demand

The relevance of operations management undergraduate majors is underscored by the increasing complexity of global supply chains, the push for operational excellence, and the integration of digital technologies.

Global Supply Chain Challenges: Recent disruptions, such as those caused by the COVID-19 pandemic, have highlighted the necessity for resilient and adaptable supply chains?skills that operations graduates are uniquely prepared to address.

Technological Advancements: The rise of Industry 4.0, IoT, automation, and data analytics has transformed operational roles. Employers seek professionals who can leverage these technologies

to improve efficiency and innovation.

Sustainability and Ethical Operations: There is a growing emphasis on environmentally sustainable practices and ethical supply chains, prompting operations managers to incorporate green initiatives and social responsibility into their strategies.

Growing Job Market: Reports from labor market analytics show consistent demand for operations professionals, with salaries reflecting the specialized skill set acquired through these undergraduate programs.

Emerging Trends and Future Outlook

The field of operations management is dynamic, with several emerging trends influencing undergraduate curricula and industry practices:

Digital Transformation and Data-Driven Operations

- Emphasis on big data analytics and artificial intelligence
- Use of predictive modeling for demand forecasting
- Adoption of cloud-based enterprise systems

Automation and Industry 4.0

- Integration of robotics and automation in manufacturing
- Smart factories and cyber-physical systems
- Human-robot collaboration

Sustainable and Responsible Operations

- Circular supply chains
- Carbon footprint reduction
- Ethical sourcing and corporate social responsibility

Agile and Resilient Supply Chains

- Flexibility to adapt to market fluctuations
- Real-time monitoring and responsive logistics

- Diversification of suppliers and contingency planning

Implications for Undergraduate Education: Future programs are likely to incorporate more interdisciplinary courses, emphasizing technology, sustainability, and strategic agility to prepare students for these evolving challenges.

Conclusion: The Significance of Operations Management Undergraduate Majors

Operations management undergraduate majors represent a vital academic pathway for students aspiring to influence the efficiency and effectiveness of organizations in a complex, technology-driven world. The comprehensive curriculum, skill development, and industry relevance make this discipline a compelling choice for those interested in problem-solving, strategic planning, and technological innovation.

As industries continue to evolve with digital transformation, sustainability imperatives, and global interconnectedness, the demand for well-trained operations professionals is expected to rise. Graduates equipped with a robust understanding of process optimization, data analytics, and supply chain management will be at the forefront of shaping resilient, efficient, and sustainable organizations.

In summary, pursuing an operations management undergraduate major provides a versatile and future-proof foundation for a rewarding career in diverse sectors. It fosters analytical thinking, strategic agility, and technological proficiency—traits essential for navigating the complexities of modern business operations. For students interested in making a tangible impact on organizational performance and efficiency, operations management stands out as a compelling academic and professional choice.

Question Answer What is operations management undergraduate major? Operations management undergraduate major is a program that focuses on overseeing, designing, and improving production processes and supply chains within organizations to enhance efficiency and effectiveness. What skills do students gain in an operations management undergraduate program? Students develop skills in process analysis, supply chain management, quality control, data analysis, project management, and strategic planning, preparing them for roles in various industries. What career opportunities are available after studying operations management? Graduates can pursue careers as operations analysts, supply chain managers, logistics coordinators, production managers, quality assurance specialists, and consulting professionals. How is operations management relevant in today's business environment? Operations management is crucial for optimizing efficiency, reducing costs, and improving customer satisfaction, making it highly relevant in competitive and globalized markets. What are the key courses in an operations management undergraduate program? Key courses typically include supply chain management, production

planning, quality control, operations strategy, logistics, and data analytics. Is operations management a good major for someone interested in entrepreneurship? Yes, operations management provides valuable knowledge for managing business processes, scaling operations, and improving efficiency, which are essential skills for entrepreneurs. What are the job prospects and earning potential for operations management graduates? Job prospects are strong due to the demand for efficient operations across industries, and graduates can expect competitive salaries that vary based on experience and location. How does technology impact operations management undergraduate studies? Technology, such as data analytics, automation, and enterprise resource planning (ERP) systems, is integral to modern operations management, and students learn to leverage these tools for process improvement.

Related keywords: operations management, undergraduate programs, business administration, supply chain management, logistics, production planning, organizational behavior, quality management, process improvement, strategic management

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