



Workforce Reinvention Blueprint

Automotive Industry

How AI and Automation will Transform the Workforce Based on ReeJig's Proprietary Work Ontology™ Intelligence

How AI is Reinventing the Automotive Industry

The automotive industry, valued at \$3.9 trillion in 2023, is projected to grow at a compound annual growth rate of 7.2% from 2024 to 2028.

Top 3 Concerns Facing Automotive Industry CEOs in 2025

1. Electrification and EV Profitability
2. Supply Chain Resilience
3. AI and Automation Integration

Focus Area 1: Workforce Shifts

Projected Workforce Shifts in 2025 and Beyond

Where AI and Automation Will Drive Operational Effectiveness

1

Assembly Line Automation

The integration of AI into manufacturing processes allows for enhanced precision, reducing human error in tasks like welding, assembly, and quality control.

AI significantly reduces operational costs by minimizing errors, waste, and downtime. **Studies project that by 2030, this technology will lead to a 35-45% reduction in production costs.**

2

Supply Chain Optimization

AI-driven platforms analyze vast amounts of supply chain data to identify patterns, predict disruptions, and recommend proactive strategies.

This optimization results in **increased supply chain resilience**, improved resource allocation, and reduced lead times. Businesses can meet customer demands more efficiently while reducing costs like overstocking.

3

Autonomous Driving Development

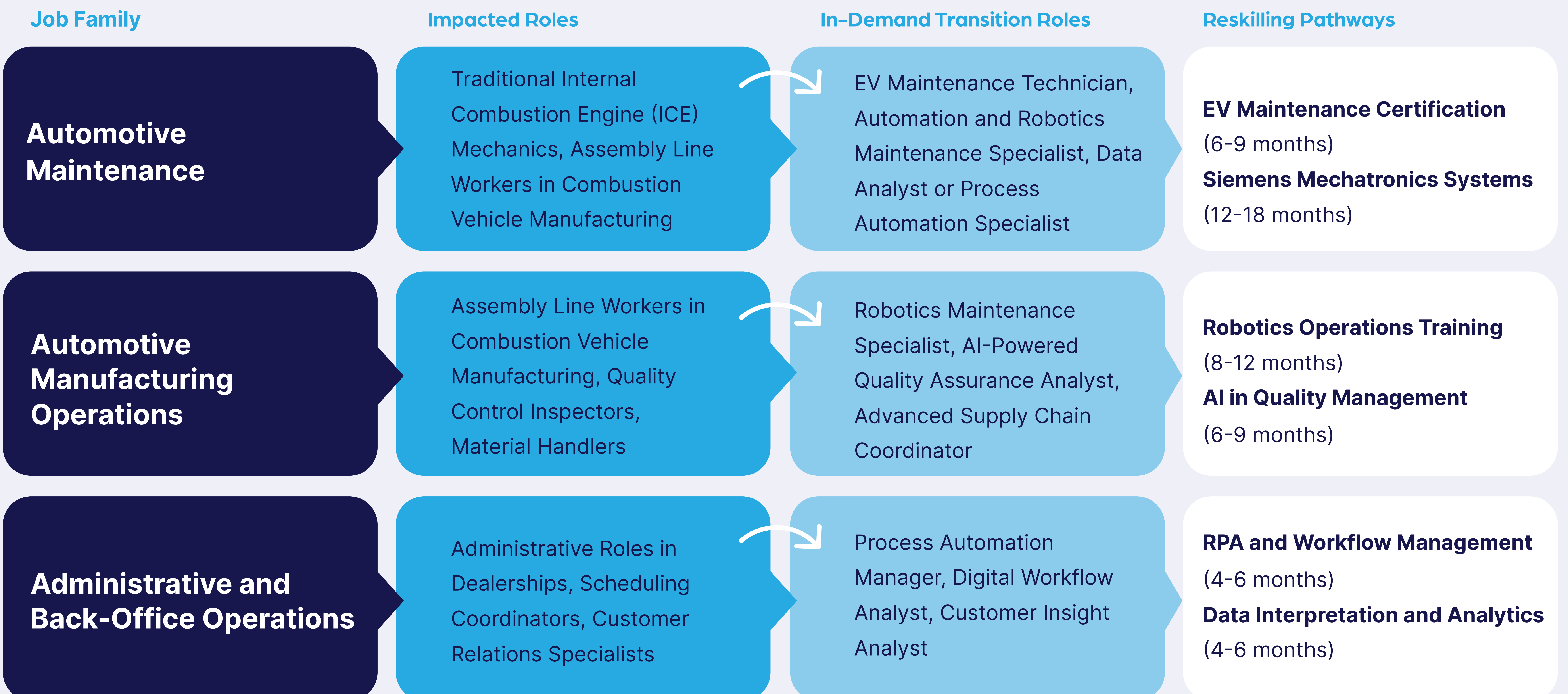
AI will support autonomous vehicle technology, enabling object recognition, path planning, and real-time decision-making for self-driving cars.

AI reduces accidents by minimizing human error, offers fuel efficiency through optimized driving, and creates new business models, such as **ride-hailing services using self-driving fleets.**

Focus Area 2: Roles Impacted by AI

Key Roles Impacted and Reskilling Pathways for 2025

How Impacted Roles Can Transition to In-Demand Roles



Focus Area 3: Driving Operational Effectiveness

2025 AI Strategies to Boost Operational Effectiveness

Prioritized Roles for AI Transformation based on AI Potential Index, Operational Efficiency Index & Time to Benefit Realization

1

Autonomous Driving Developers and Testers

This role accelerates the development of autonomous vehicles, saving substantial time and costs in physical testing and improving software precision and regulatory compliance.

With an AIPI of 1.35 and an OEI of 91%, this role is a top priority for investment because it delivers short-term benefits with high efficiency improvements, ensuring market leadership in autonomous vehicle innovation.



AI Potential Index (AIPI) Score: 1.35

Breakdown: Potential Automation Proportion: 90%, AI Maturity/Risk Adjustment: 0.75, Current Automation Proportion: 50%



Operational Efficiency Index (OEI) Score: 91%

Breakdown: Time Savings: 40%, Cost Savings: 30%, Process Improvement Factor: 1.3



Time to Benefit Realization: Short-Term (6-12 months) based on the rapid implementation of AI tools enabling immediate improvements in development cycles and testing protocols.

2

EV Battery Production Automation Staff

This role streamlines EV battery production, saving significant costs in material handling and labor while improving output consistency and scalability for growing EV demand.

With an AIPI of 1.48 and an OEI of 75%, this role is a high-priority investment with medium-term benefits that enhance competitiveness in the electrification market.



AI Potential Index (AIPI) Score: 1.48

Breakdown: Potential Automation Proportion: 85%, AI Maturity/Risk Adjustment: 0.7, Current Automation Proportion: 40%



Operational Efficiency Index (OEI) Score: 75%

Breakdown: Time Savings: 35%, Cost Savings: 25%, Process Improvement Factor: 1.25



Time to Benefit Realization: Long-Term (2-3 years)

The integration of AI-driven automation in battery production processes.