

SOLUTION PROFILE

MANUFACTURING ASSESSMENT AND PLANNING SERVICES

ASSESSMENT MAP

THE BUSINESS RESULT

The Assessment MAP delivers manufacturing executives and plant managers a rapid diagnosis regarding high-impact capital investments, process improvement programs, cost reduction initiatives and productivity tools. It helps you target plant and productivity improvements, mitigate associated risks and increase the speed of initiative launches.

Our engagement is designed around a one-day onsite visit to a single facility and plant team. Direct contact with plant management, operational team leaders, schedulers and other critical resources provide invaluable insight that allows us to rapidly evaluate complex interrelationships.

CREATING A ROADMAP TO MANUFACTURING EXCELLENCE...

Manufacturing facilities face challenges and obstacles daily that hinder effective execution. Challenges come in many forms. Is it our materials, equipment, labor or the flow and manner in which the facility executes? An Assessment MAP provides insight into possible root causes, and creates a prioritized checklist of business issues to target in your planning process. Rockwell Automation consultants rely on an extensive knowledge base and industry experience assembled over 100 years of helping our customers build world-class facilities.



The Assessment MAP is one of three MAP offerings from Rockwell Automation, the following table shows a high level description of activities for each offering and what's included in each.

OFFERING OVERVIEW			
Activity/Deliverable	Assessment	Value	Strategy
Engagement Duration	1 Day	2 - 5 weeks	4 - 6 weeks
Operational and Business Issues	✓	✓	
Class of Solution Recommendations	✓	✓	
Plant Tour	✓	✓	✓
Detailed Interviews		✓	✓
Industry Benchmark and Best Practices Statements	✓	✓	
Estimated Business Value		✓	
ROI Estimate and Prioritization		✓	Optional
Customized Report and Presentation		✓	✓
High - level User Requirements			✓
Data and Process Flow (As - Is)			✓
Future State Process Flow			✓
Implementation Roadmap			✓
System Architecture			✓
Budgetary Project Cost Analysis			✓

...REQUIRES TARGETING THE RIGHT SOLUTIONS

Staying on top of evolving technologies is difficult and time-consuming. Our consultants share current knowledge and practical experience to educate you on best practices and the solutions applied in your industry. Experience across process, discrete and hybrid manufacturing allows them to rapidly focus on which solutions deliver the highest possible return and shortest payback to your organization:

"SHOW ME THE MONEY"

Years of experience delivering manufacturing solutions creates the underlying data to support a practical benefit estimate. Past industry applications provide tangible examples of success and permit a "behind the wheel" experience. A report summarizes resource demands along with expected financial and operational benefits for each application – a critical component in tactical and strategic planning.

The Rockwell Automation MAP engagement team works with your core operations team to craft a plan optimized for your specific performance data. This collaborative process results in strong alignment between business objectives, project funding, and the execution process.

ASSESSMENT MAP - DETAILS

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While each Assessment MAP is customized to your particular needs, we follow a standard methodology for developing content and scheduling activities:

Introductory Teleconference Meetings (1-3 hours) – to understand the manufacturing processes, internal plant groups, current plant initiatives, etc.

On-site Kickoff Meeting (30 minutes) – Suggested participation includes functional leads/managers responsible for scheduling, quality, production execution, yield, utilization and productivity. We will review why improvements are needed, or why they are hard to sustain. A discussion of your general business climate prepares us for the plant tour.

Plant Tour (3-4 hours) – We request a guided plant tour of the target manufacturing line and support areas. The tour should be set up to traverse the plant from receiving to shipping with an emphasis on any operational issues that are inhibiting execution.

Tour Discussions – Our MAP team will review and validate the findings from the tour. We may ask further questions to clarify and qualify business issues. This collaborative discussion helps us identify/formulate key performance indicators (KPIs) for the targeted areas, and determine appropriate solution classes that typically address these issues. Access to key operations leads may be required in this meeting.

Rockwell Automation Tour Summarization (1 hour) – After the tour we will summarize our findings, compile observations into a report, and prepare for the final review presentation.

Assessment Presentation (1 hour) – The Assessment MAP presentation is delivered to your team to review the findings and discuss proposed next steps. We follow up this presentation with a summary letter that contains the details delivered in the presentation and completes the Assessment MAP engagement.

Follow Up – Our Map team coordinates with local Rockwell Automation resources to ensure that recommendations and next steps are completed in a timely fashion.

ASSESSMENT MAP DELIVERABLE AND NEXT STEPS

Batch Execution & Automation – Applying our experiences in industry standard automation to help improve the way your plant runs.

Track and Trace – establish an order-based view of work-in-process and material genealogy.

Line Performance Monitoring – real-time visibility of OEE, downtime and yield or throughput.

Production Monitoring & Waste Reduction – Proactively monitor process efficiency, raw materials consumption, and provide diagnostic tools to help improve yield.

Production Quality Management – Improve data collection and rationalize process Quality Data.

Plant Reporting Automation – Create a “window” into process information for daily reporting and research.

Asset Reliability and Management – Improve maintenance practices and moving from time-based maintenance.

EXAMPLE SOLUTION CLASSES

Our solution recommendations reference industry standard benchmarks and trends, including a statement of operational best practices within your industry, and a realistic plan for developing a best-in-class manufacturing strategy.

The following table is an example set of solutions that may result from an Assessment MAP and would be focused on your business drivers.

Business Driver	Solution Class	% Improvement (Benchmark)
Improving Uptime	Performance Measurement Toolset	3-5% in line production improvement
Raw Material Yield	Inventory Tracking	15-20% reduction in raw material, 5% increase in productivity
Energy Reduction	Power & Energy Management Program	10-20% reduction in Utility Costs 5-10% reduction in demand charges

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