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# 19-6 Robust Manufacturing Advanced Engineering SERV-043 PFMEA, AI & Advanced Manufacturing Analysis

## Positioning

Advanced Engineering Services are designed for customers seeking world-class production performance through data-driven methodologies and advanced industrial engineering.

## Objective

- Anticipate risks before failures occur
- Improve quality and reliability
- Accelerate problem solving
- Enable intelligent manufacturing

## PFMEA

- Failure mode analysis
- Risk prioritization
- Mitigation plans
- Process robustness improvement

## Advanced Analytics

- Production data analysis
- Statistical studies
- Correlation analysis
- Predictive modeling

## Artificial Intelligence

- Process optimization
- Failure prediction
- Yield improvement
- Intelligent parameter recommendations

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## Industrial Engineering

- Design of Experiments (DOE)
- Capability studies
- Reliability engineering
- Cost reduction initiatives

## Deliverables

- PFMEA Report
- Risk Matrix
- AI Analysis Report
- Improvement Roadmap
- Executive Summary

## SMT Worldwide Value Added

- Process + Equipment + Software expertise
- AI-enabled manufacturing approach
- Cross-industry experience
- Continuous improvement methodology

## Typical Applications

- High-reliability electronics
- Semiconductor manufacturing
- Medical devices
- Aerospace & defense
- Automotive electronics