DELMIA’s Aerospace & Defense Composite Production and Quality Control solution is an industry-proven approach which facilitates corrective and preventive actions for composite production quality issues. Customers benefit from a unique real-time detection based on analysis of historical shop floor data and discovery of rules validated by experts.

Quality Engineers can detect risk patterns with a fact-based approach supported by actual data. From this analysis, rules are identified that will improve the composite’s quality and reduce scrap and rework. When a potential problem is identified, the level of risk is quantified based on best practices, a risk analysis is published and preventive or rectifying actions are proposed to the operators.

User Interface: View shows a rule of Risk Situation discovered in the data.
INDUSTRY CHALLENGES

• How to determine which critical process and product attributes to monitor and the right combinations to prevent variations?
• How to understand patterns of production parameters that result in defects?
• How to gain real-time visibility of the shop floor to monitor progress and collaboratively solve production problems?
• How to quickly communicate preventive or rectifying actions to operators?
• How to improve production without having to re-engineer processes?

SOLUTION HIGHLIGHTS

• Easily collect shop floor data in real-time
• Quickly identify root causes of failure
• Edit and establish rules with experts
• Understand quantified influence of process variables
• Obtain advance warning of potential problems
• Real-time adjustment of process to changing conditions
• Monitor rule compliance and receive notification when new rules are needed

SOLUTION VALUES

• Improve manufacturing planning efficiency by easily reusing configured engineering data that is automatically updated as the design evolves
• Reduce probability of defect recurrence
• Improve product quality, reduce rework
• Accelerate new manufacturing cycles

USERS

• Quality Engineers
Delivering Best-in-Class Products

Virtual Products

Model and Simulate our Planet

3D Design

Information Intelligence

Realistic Simulation

Dashboard Intelligence

Digital Manufacturing and Production

Social Innovation

Collaborative Innovation

3D Communication

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