

IDENTIFY | DEFINE | DEVELOP | OPTIMIZE | VERIFY

IDDOV

a methodical approach
to product
development that
ensures customer
satisfaction and a
robust design

customers and develop solutions to best meet consumer and company needs

robust and will perform consistently for our customers and consumers

Proactive application of statistical tools for product development quality and performance

Components of IDDOV



I IDENTIF

Identify the opportunity and product plan

D DEFINE

Define the requirements needed to achieve Critical to Quality performance

D DEVELOP

Develop concepts and models to testing and production trials

O OPTIMIZE

Optimize the design most desireable

VERIFY

Verify the performance and capability to customer needs and targets

IDENTIFY: Select and scope the project for success















- □ Develop a customer case (<u>be</u> the consumer)
- ☐ Detail the strategic objective
- ☐ Scope the project
- Define the team and time needed
- □ Determine what skill sets and resources are needed to complete the project



DEFINE: Develop a strategy based on customer needs















- ☐ Experience customer usage
- ☐ Understand what the customer wants and needs
- ☐ Develop a strategy for customer success
- ☐ Define critical measure targets
- ☐ Outline critical to quality requirements



DEVELOP: Based on company and customer needs













☐ Address concept strengths and weaknesses

☐ Refine and select strong concept(s)



OPTIMIZE: A robust design delivers consistent performance



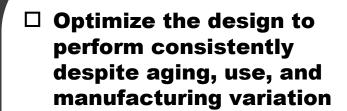












☐ Understand product and/or process function

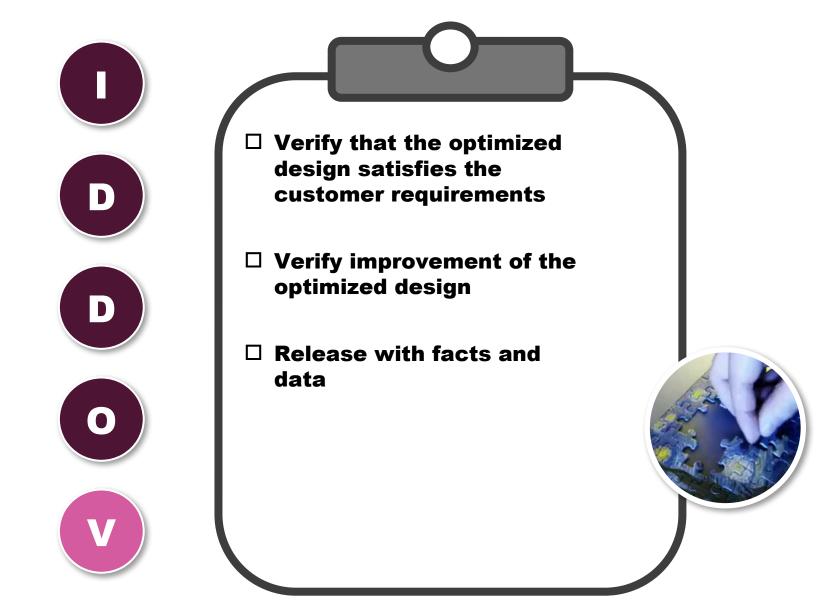
Understand causes of variability

 Optimize nominal design parameters to maximize robustness



VERIFY: All requirements are satisfied prior to launch







WHEN TO USE

- New innovation
- Core products
- Voice of the customer
- Innovation "in cycle"
- Historical performance issue
- Design efficiency issues

WHEN NOT TO USE

 A problem with an existing product or process

TYPICAL TOOLS TO USE

- Voice of the Customer
- Thought Process Mapping
- Brainstorming / Brainwriting
- House of Quality / QFD
- Tolerance Design
- Axiomatic Design
- Iterative Pugh Analysis
- P-Diagram
- Taguchi Robust Design
- Various creative techniques

