

Principles of Integrated Product Development Checklist



PRINCIPLE OF IPD

SELF ASSESSMENT



Understand Customer Needs and What's Required to Meet Them

Are all your activities aligned to understanding and fulfilling your target customers' desires?



Integrate Business with Product Development Plans

Have you merged siloed information between "creative" and "business" forces for the project?



Use Integrated Product Teams

Are their representatives from each discipline who have input and control over the project on one team?



Create Joint Processes

Are manufacturing and product support processes integrated?



Plan Budgets and Costs at the Start

Are representatives from all teams weighing in on costs throughout the project?



Integrate Suppliers and Contractors Early

Are vendors on the team and aware of progress well before their actual time to participate?



Use Robust Design to Avoid Past Mistakes

Are integrated design and engineering techniques being used to achieve high quality products?



Integrate Professional Design & Engineering Tools

Are your CAE, CAD, CAM, and CASE software using STEP file types that can easily share data?



Digitally Simulate Performance and Manufacturing

Is thorough testing being performed in simulated environments before physical prototypes are invested in?



Empower Efficient Development

Have barriers to innovation and engineering creativity been removed?



Proactively Identify and Manage Risk

Are division heads keeping vigilant for risk factors, & are team members comfortable being honest with problems they spot?



Always Improve the Design Process

Are you comparing progress against benchmarks, and continuously increasing efficiency?