

- Concept development
 - Identify needs of target market
 - Develop product concepts & evaluate
 - Select final concept

- System-level design
 - Define product architecture
 - Divide product into subsystems and components
 - Geometric layout of product
 - Functional specification of each of the product's subsystems
 - Preliminary process flow diagram for final assembly

- Detail design
 - Complete specification of geometry, materials, and tolerances of all parts
 - Identification of suppliers
 - Process plans for fabrication & assembly

- Testing & refinement
 - Prototypes – alpha & beta

- Production ramp-up
 - Make product using intended production system
 - Evaluate production output

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EC.S02 Water Jet Technologies
Spring 2005

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