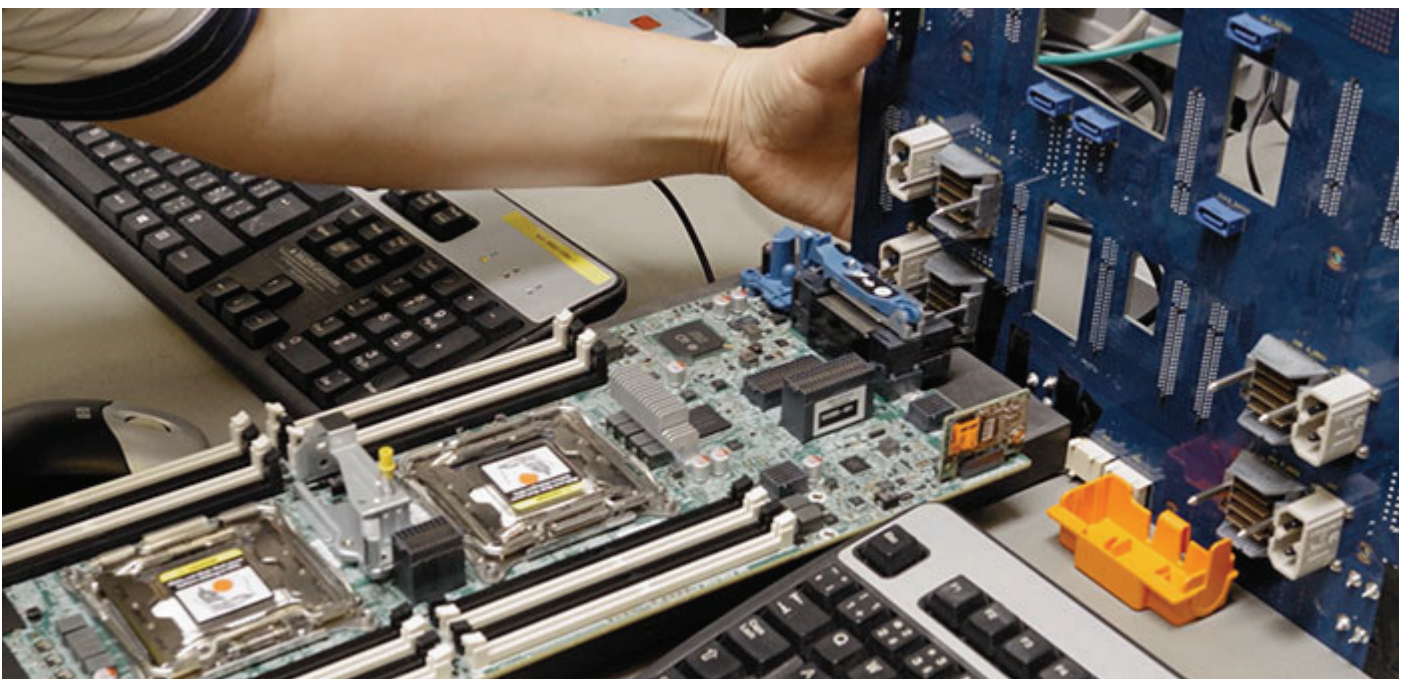




HPE Renew—affordable, remanufactured products, that are as good as new.

HPE Renew Technical Remanufacturing Checklist



The checklist below details how the HPE Renew remanufacturing process truly ensures that all products are a true reflection of new Hewlett Packard Enterprise products.

Incoming Product Inspection

- 1 Products must pass a cosmetic inspection based on strict HPE Factory Standards. If the parts do not meet the following requirements they are replaced with original HPE new parts:
 - On visible front-facing surfaces (Class 1), light scratches must measure less than 6 cm, deep scratches must measure less than 2 mm
 - Any areas of blemishes, abrasions or water spots must measure less than 1.5 cm
 - Any dents on panels
 - Any rusts spots
- 2 System Power up and configuration checks performed
- 3 Validation of parts against Bill of Materials
- 4 Components inspections, such as memory and hard disks must bear manufacturer’s seals of authenticity. Otherwise they are rejected and scrapped for recycling
- 5 All cables and accessories are scrapped for recycling and replaced by new ones
- 6 Perform Engineering Change Notification checks to latest new product factory specifications

Reconditioning

- 7 Perform disassembly down to sub-assembly level; parts such as fans, power supplies, major cages and I/O panels are cleaned
- 8 Intensive cleaning of all sub-assembly parts and racks
- 9 Removal of labels and regeneration of new product labels
- 10 Minor touch up of external surfaces may occur if needed

Assembly & Software Installations

- 11 Product component assembly and system integration
- 12 Storage drives reformatted and retested to ensure data integrity. Every drive is wiped clean of any data and every disk is separately overwritten
- 13 Restore Factory Default settings and reset all password settings
- 14 Restore licensed version of Operating System Software and install latest Firmware updates

Product Functional Test

15	Coverage	Static Testing	Dynamic Testing
	Configuration and System Settings	<ul style="list-style-type: none"> • Product Configuration Checks • Hardware checks via system LED/LCD displays • Unit Serial number Update • System and I/O firmware verification and updates 	
	Fans	<ul style="list-style-type: none"> • Fan Status checks 	
	CMOS		<ul style="list-style-type: none"> • Random Data Pattern Tests
	PCI Bus/Serial Port/USB Devices		<ul style="list-style-type: none"> • Detect and Read tests
	Temperature Status		<ul style="list-style-type: none"> • Temperature Caution Tests
	Peripheral Interconnect Tests		<ul style="list-style-type: none"> • All Hot-plug Hard disk slots Interconnectivity tests • DVD/CD-ROM boot and O/S installation checks • LAN connectivity
	Processor	<ul style="list-style-type: none"> • CPU clock speed 	<ul style="list-style-type: none"> • Real-time clock test cycles • Up to 24-hr run-in tests
	Memory	<ul style="list-style-type: none"> • Memory Size and Slot Test 	<ul style="list-style-type: none"> • Random Address Tests • Read/Write Test • March/Noise/Walk/ECC Tests • Up to 24-hr run-in tests
16	SCSI Adaptors, Fibre Channel Host Bus adapters, SAN switches, LAN etc, are tested where options apply		
17	Mandatory electrical safety Hipot/Ground bond tests		



Final Product Inspection And Deliverables

-
- 18 Archive Test logs and Product Manifest Outputs for Test status Verifications

 - 19 Include newest versions of product documentations and/or CD kits

 - 20 Optional provision of racking services for Storage and Server products, inclusive of Power Distribution Unit cabling works

 - 21 Re-packaging in new HPE boxes or wood crates as per HPE Factory standard packaging procedures

 - 22 The Warranty period is reset in the HPE Worldwide Service Database upon shipment date


 - 23 Product is ready for delivery and installation
-



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