



# **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

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- 2 System Power up and configuration checks performed

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- 3 Validation of parts against Bill of Materials

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- 4 Components inspections, such as memory and hard disks must bear manufacturer’s seals of authenticity. Otherwise they are rejected and scrapped for recycling

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- 5 All cables and accessories are scrapped for recycling and replaced by new ones

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- 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

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- 8 Intensive cleaning of all sub-assembly parts and racks

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- 9 Removal of labels and regeneration of new product labels

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- 10 Minor touch up of external surfaces may occur if needed

**Assembly & Software Installations**

- 11 Product component assembly and system integration

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- 12 Storage drives reformatted and retested to ensure data integrity. Every drive is wiped clean of any data and every disk is separately overwritten

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- 13 Restore Factory Default settings and reset all password settings

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- 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"> <li>• Product Configuration Checks</li> <li>• Hardware checks via system LED/LCD displays</li> <li>• Unit Serial number Update</li> <li>• System and I/O firmware verification and updates</li> </ul>	
	Fans	<ul style="list-style-type: none"> <li>• Fan Status checks</li> </ul>	
	CMOS		<ul style="list-style-type: none"> <li>• Random Data Pattern Tests</li> </ul>
	PCI Bus/Serial Port/USB Devices		<ul style="list-style-type: none"> <li>• Detect and Read tests</li> </ul>
	Temperature Status		<ul style="list-style-type: none"> <li>• Temperature Caution Tests</li> </ul>
	Peripheral Interconnect Tests		<ul style="list-style-type: none"> <li>• All Hot-plug Hard disk slots Interconnectivity tests</li> <li>• DVD/CD-ROM boot and O/S installation checks</li> <li>• LAN connectivity</li> </ul>
	Processor	<ul style="list-style-type: none"> <li>• CPU clock speed</li> </ul>	<ul style="list-style-type: none"> <li>• Real-time clock test cycles</li> <li>• Up to 24-hr run-in tests</li> </ul>
	Memory	<ul style="list-style-type: none"> <li>• Memory Size and Slot Test</li> </ul>	<ul style="list-style-type: none"> <li>• Random Address Tests</li> <li>• Read/Write Test</li> <li>• March/Noise/Walk/ECC Tests</li> <li>• Up to 24-hr run-in tests</li> </ul>
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**

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

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

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

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

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

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  - 23 Product is ready for delivery and installation
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