OUR LAB NO LONGER PROVIDES COMMERCIAL TESTING.

CBU Packaging Test Price List - ISTA & ASTM
(June 2019)

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Packaged-Products weighing 150 lb (68 kg) or Less</th>
<th>Packaged-Products weighing Over 150 lb (68 kg) (Max. 500 lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1A</td>
<td>1C</td>
</tr>
<tr>
<td>Non-simulation integrity test</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Partial simulation integrity test</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>General simulation perf. test</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Carrier performance test</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Fixed displacement vibration</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Random Vibration</td>
<td>☐</td>
<td>☐</td>
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<tr>
<td>Compression</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Shock Testing</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Atmospheric pre-conditioning</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

CBU Price for First Pkg $525 $525 $425 $875 $780 $525 - $875 $525 $780 $525 - $875
CBU Price each additional Pkg $25 $25 $25 $25 $150 $25 $25 $150 $150*

Notes:
- CBU Packaging Lab is certified by ISTA to perform the above procedures as shown on ista website at: [http://www.ista.org/](http://www.ista.org/)
- Customer test package size and weight limits must be within CBU Package Lab test equipment maximum limits to receive services.
- Amazon test rate allows one re-test at no charge for an initial failed Amazon test. If a second re-test is required, the price for any additional re-test will be 50% of the original Amazon quoted rate.
- Healthcare Packaging Consortium member discounts will still apply for any re-test requirements of same original packaged product.
- If an environmental chamber is used as a separate added requirement, an additional $50 per day will be added to the test fee.
- Environmental chamber testing is an additional $50 per day for dedicated single use. Chamber use fee will be proportioned per customer when multiple customer test samples share the same profile start cycle.
- If recommendations are needed, add $100/hr to the price above.
- R&D is available at $200/hr with a minimum of 5 hours.
- For ASTM tests, rate will vary depending on appropriate Test Plan, call or email Larry Rutledge at (901) 827-6830 or lrutledge2@bellsouth.net.
- For other tests not listed above, call Larry Rutledge at (901) 827-6830 or email him at lrutledge2@bellsouth.net.
- More info about CBU Packaging can be found at: [www.cbu.edu/engineering/packaging](http://www.cbu.edu/engineering/packaging).
- ISTA 3E (Unitized Loads of Same Product weighing over 150 lbs.) added to menu on 8/22/2017.

* Additional package rates only apply to identical packaged products, primarily for “fragile” commodities when multiple samples are recommended.
CBU Packaging Lab Staff

**Pong Malasri**, PhD, PE, CPLP Professional, CPP
Professor & Packaging Initiatives Coordinator
pong@cbu.edu, (901) 321-3419

**Bob Moats**, CPLP Technologist
Engineering Lab Technician
rmoats@cbu.edu, (901) 321-3420

**Thomas Podesta**, CPLP Technologist
Engineering Lab Technician
tpodesta@cbu.edu, (901) 321-4155

**Henry Rhodes**
Engineering Lab Technician
hrhodes@cbu.edu, (901) 321-3421
### CPLP Program at CBU

Congratulations to the following students & staff for becoming an ISTA Certified Packaging Lab Technologist!

<table>
<thead>
<tr>
<th>Semester</th>
<th>CPLP Technologist (2nd Level of CPLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2019</td>
<td>1. Jade Housewirth</td>
</tr>
<tr>
<td></td>
<td>2. Georgina Johns</td>
</tr>
<tr>
<td>Fall 2019</td>
<td>3. Mona Al Assi</td>
</tr>
<tr>
<td></td>
<td>4. Robert Moats</td>
</tr>
<tr>
<td></td>
<td>5. Thomas Podesta</td>
</tr>
<tr>
<td>Summer 2020</td>
<td>7. Wilson Pritchard</td>
</tr>
</tbody>
</table>

Congratulations to the following students and staff for becoming an ISTA Certified Packaging Lab Technician!

<table>
<thead>
<tr>
<th>Semester</th>
<th>CPLP Technician (1st Level of CPLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2014</td>
<td>1. Alex Othmani</td>
</tr>
<tr>
<td></td>
<td>2. Caleb Smith</td>
</tr>
<tr>
<td></td>
<td>3. Rebecca Wauford</td>
</tr>
<tr>
<td>Summer 2014</td>
<td>4. Gabriela Gomez-Pedro</td>
</tr>
<tr>
<td></td>
<td>5. Mallory Harvey</td>
</tr>
<tr>
<td>Spring 2015</td>
<td>6. Alana Byrd</td>
</tr>
<tr>
<td></td>
<td>7. Joseph Ferris</td>
</tr>
<tr>
<td></td>
<td>8. Antoine Herve*</td>
</tr>
<tr>
<td></td>
<td>9. Michael Kist</td>
</tr>
<tr>
<td></td>
<td>10. Robert Moats</td>
</tr>
<tr>
<td></td>
<td>11. Sebastian Polania</td>
</tr>
<tr>
<td></td>
<td>12. Yuliana Luna</td>
</tr>
<tr>
<td></td>
<td>13. Mark Wolfe</td>
</tr>
<tr>
<td></td>
<td>14. Anne Youngblood</td>
</tr>
<tr>
<td>Summer 2015</td>
<td>15. Possawat Poonpurmsiri*</td>
</tr>
<tr>
<td></td>
<td>16. Chonnavee Takkarnviroj*</td>
</tr>
<tr>
<td></td>
<td>17. Poomtawan Tiapradit*</td>
</tr>
<tr>
<td>Year</td>
<td>Students</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------</td>
</tr>
</tbody>
</table>
| Spring 2016 | 18. April Bonner  
19. Charlotte Hare  
20. Jade Housewirth  
21. Georgina Johns  
22. Benjamin Loving  
23. Ngan Nyugen  
24. Stephen Russell  
25. Sammurelle Savage  
26. Juan Vazquez  
27. Clark Wadlington  
28. Zhihong Zheng  |
| Summer 2016 | 29. Bharath Bahudhoddi  
30. Abhishek Chava  
31. Yugesh Devabakthni  
32. Sesha Kota  
33. Jeremy Lloyd  
34. Radhika Suryadevara  
35. Erica Thomas  |
| Fall 2016 | 36. Vinithraj Thota  |
| Spring 2017 | 37. Eduardo Aguilar  
38. Hope Campbell  
39. Eric Defo Fondouop  
40. Hunter Howard  
41. Conrrado Jimenez  
42. Brianna Jordan  
43. James Alex Moses  
44. Scott Pala  
45. Britney Payne  
46. Yocelin Sanchez  |
| Spring 2018 | 47. Vanessa Cervantes  
48. Jazzmyn Davenport  
49. Ian Dover  
50. Deliya Duckworth  
51. Daniel Gamez  
52. Henry Liu  
53. Michael Longo  
54. Saira Martinez  
55. Christopher Payne  
56. Racheal Pham  
57. Luis Rodriguez  
58. Yuritza Sanchez  
59. Salvador Sauced
### Other Certification Programs for CBU Packaging Students

Congratulations to the following students for obtaining the following certifications:

<table>
<thead>
<tr>
<th>Semester</th>
<th>OSHA 10-Hr General Industry Safety Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2019</td>
<td>1. Jazzmyn Davenport</td>
</tr>
<tr>
<td>Summer 2019</td>
<td>2. Deliya Duckworth</td>
</tr>
<tr>
<td></td>
<td>3. Alandria Waller</td>
</tr>
<tr>
<td>Fall 2019</td>
<td>4. Taylor Waddell</td>
</tr>
<tr>
<td></td>
<td>5. Mona Al Assi</td>
</tr>
<tr>
<td>Spring 2020</td>
<td>6. Eduardo Aguilar</td>
</tr>
<tr>
<td></td>
<td>7. Alexander Brown</td>
</tr>
<tr>
<td></td>
<td>8. Brianna Jordan</td>
</tr>
<tr>
<td></td>
<td>9. Benjamin Knighton</td>
</tr>
</tbody>
</table>

*Exchange student from ECAM, France
**Lab intern from Kasetsart University, Thailand
<table>
<thead>
<tr>
<th>Semester</th>
<th>Lean Six Sigma Yellow Belt Quality Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer 2019</td>
<td>1. Deliya Duckworth</td>
</tr>
<tr>
<td>Fall 2019</td>
<td>2. Mona Al Assi</td>
</tr>
<tr>
<td>Spring 2020</td>
<td>3. Carl Gordy</td>
</tr>
<tr>
<td></td>
<td>4. Kevesha Snow</td>
</tr>
<tr>
<td></td>
<td>5. Taylor Waddle</td>
</tr>
<tr>
<td></td>
<td>6. Alandria Waller</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>IoPP Certified Packaging Professional In-Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2020</td>
<td>1. Mona Assi</td>
</tr>
<tr>
<td></td>
<td>2. Brianna Jordan</td>
</tr>
<tr>
<td></td>
<td>3. Kevesha Snow</td>
</tr>
</tbody>
</table>
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CBU Certified Packaging Lab

Lansmont PDT-56ED Drop Tester
(175-lb capacity)

L.A.B. AD-500 Drop Tester
(500-lb capacity)
Lansmont Model 1000 Vibration Test System
(75-lb capacity)

Lansmont ELVIS TS-122
(800-lb capacity)

Lansmont Shock Tester Model 65/81
(500-lb capacity)

L.A.B. Incline Impact Tester
(500-lb capacity)

CSZ Temperature & Humidity Chamber Model ZP-32
(-49F to +374F, 10% to 98% RH,
38”x38”x38” chamber size)

Envirotronics Altitude Chamber Model EA8-2-3-AC
(-90F to +350F, Up to 100000 ft altitude,
24”x24”x24” chamber size)
Modified Gaynes Compression Table
(5000-lb capacity)

Bel-O-Vac Vacuum model BV-1815 Thermoformer
(15”X 2”X 2”, 8 to 12 parts/minute)

Edge Crush Tester

Mullen Tester

Kongsberg XL22 Sample Table

Hounsfield Materials Tester Model H5KS
(Load capacity is 5kN with a speed range from 0.01 to 1000 mm/min)
Dimension 3D Printer
(Maximum container dimensions are 8” x 8” x 10”)

Fadal VMC-15 CNC Vertical Machine
(5-axis capability, max 7500 rpm, 20"x16"x16" work area, and 21 tool stations)

MTS 810 Material Test System
(22000-lb capacity)

Romi M-17 CNE Lathe Machine

Toshiba EC45N Injection Molding Machine

Test-A-Pack Seal Strength Tester
Publications Authored/Co-Authored by Students
2011 – 2019 (Highlighted names are students)


CBU Packaging – www.cbu.edu/packaging

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*Rev. August 10, 2020*

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