

SDC Table 2: Relationship between critical mission tasks and functional tests

Critical Mission Tasks	Functional Test
<ul style="list-style-type: none"> • Egress/ingress landing vehicle/habitat • Incline/ramp climb and descend • Walking on planetary landscape 	<i>Seat Egress and Walk</i>
<ul style="list-style-type: none"> • Vehicle/habitat ladder climb 	<i>Ladder Climb</i>
<ul style="list-style-type: none"> • Recovery from fall/near fall • Recovery from prone/supine position 	<i>Recovery from Fall/Stand</i>
<ul style="list-style-type: none"> • Load samples onto vehicle/habitat compartments • Lift and carry objects 	<i>Object Translation</i>
<ul style="list-style-type: none"> • Egress/ingress vehicle/habitat/rover • Walking on planetary landscape 	<i>Jump Down</i>
<ul style="list-style-type: none"> • Open/close hatch for extra-vehicular activities 	<i>Hatch Opening</i>
<ul style="list-style-type: none"> • Habitat assembly/ deployment tasks • Equipment set up/tear down • Connect/disconnect lander/habitat umbilicals/interfaces • Repair equipment inside lander/habitat 	<i>Activity Board</i>