

# PanunTools - ArcGIS Pro License Requirements

Toolset	Tool	License Level Required
Daily Workflow	Calculate Containment	<p><b>Basic</b></p> <ul style="list-style-type: none"> <li>Contained vs Uncontained</li> </ul> <p><b>Advanced</b></p> <ul style="list-style-type: none"> <li><b>Inspect Alignment</b> <ul style="list-style-type: none"> <li><code> arcpy.PolygonToLine_management()</code></li> <li><code> arcpy.Erase_analysis()</code></li> </ul> </li> <li><b>Contained vs Exterior Length</b> <ul style="list-style-type: none"> <li><code> arcpy.PolygonToLine_management()</code></li> <li><code> arcpy.Erase_analysis()</code></li> </ul> </li> </ul>
	Calculate Ownership	<b>Basic</b>
	Create Fire Perimeter Export	<b>Basic</b>
	Create Fire Progression	<b>Basic</b>
	Dissolve Explode Perimeter Line	<b>Basic</b>
	GISS Workflow Assistant	<p><b>Spatial Analyst</b></p> <ul style="list-style-type: none"> <li><b>Insert ElevFeet</b> <ul style="list-style-type: none"> <li><code> arcpy.sa.ExtractValuesToPoints()</code></li> </ul> </li> </ul>
	PDF Georeference Check	<b>Basic</b>
	PDF Multi Export	<b>Basic</b>
	Update Perimeter IR	<p><b>Basic</b></p> <ul style="list-style-type: none"> <li>Isolated Heat</li> <li>Intense Heat</li> <li>Scattered Heat</li> </ul> <p><b>Advanced</b></p> <ul style="list-style-type: none"> <li><b>Inspect Growth/Reduction</b> <ul style="list-style-type: none"> <li><code> arcpy.Erase_analysis()</code></li> <li><code> arcpy.PolygonToLine_management()</code></li> </ul> </li> <li><b>Check Alignment of Contained Features</b> <ul style="list-style-type: none"> <li><code> arcpy.Erase_analysis()</code></li> </ul> </li> <li><b>Heat Perimeter</b> <ul style="list-style-type: none"> <li><code> arcpy.PolygonToLine_management()</code></li> <li><code> arcpy.Erase_analysis()</code></li> </ul> </li> </ul>

<b>Data Download</b>	Base Data Acquisition	<p><b>Basic</b></p> <ul style="list-style-type: none"> <li>• <b>USGS Topo Vector</b></li> <li>• <b>SMA</b></li> </ul> <p><b>Standard</b></p> <ul style="list-style-type: none"> <li>• <b>NAIP Imagery</b> <ul style="list-style-type: none"> <li>◦ <code> arcpy.CreateMosaicDataset_management()</code></li> <li>◦ <code> arcpy.AddRastersToMosaicDataset_management()</code></li> <li>◦ <code> arcpy.DefineMosaicDatasetNoData_management()</code></li> <li>◦ <code> arcpy.BuildFootprints_management()</code></li> </ul> </li> <li>• <b>DEM 10m &amp; 30m</b> <ul style="list-style-type: none"> <li>◦ <code> arcpy.CreateMosaicDataset_management()</code></li> <li>◦ <code> arcpy.AddRastersToMosaicDataset_management()</code></li> <li>◦ <code> arcpy.BuildOverviews_management()</code></li> </ul> </li> </ul> <p><b>Advanced</b></p> <ul style="list-style-type: none"> <li>• <b>USGS Topo Raster 100k &amp; 250k</b> <ul style="list-style-type: none"> <li>◦ <code> arcpy.FeatureVerticesToPoints_management()</code> <ul style="list-style-type: none"> <li>▪ Requires Advanced License</li> </ul> </li> <li>◦ <code> arcpy.AddRastersToMosaicDataset_management()</code> <ul style="list-style-type: none"> <li>▪ Requires Standard License</li> </ul> </li> <li>◦ <code> arcpy.CreateMosaicDataset_management()</code> <ul style="list-style-type: none"> <li>▪ Requires Standard License</li> </ul> </li> </ul> </li> </ul> <p><b>Standard &amp; Spatial Analyst</b></p> <ul style="list-style-type: none"> <li>• <b>USFS Topo Raster 24</b> <ul style="list-style-type: none"> <li>◦ <code> arcpy.AddRastersToMosaicDataset_management()</code> <ul style="list-style-type: none"> <li>▪ Requires Standard License</li> </ul> </li> <li>◦ <code> arcpy.CreateMosaicDataset_management()</code> <ul style="list-style-type: none"> <li>▪ Requires Standard License</li> </ul> </li> <li>◦ <code> arcpy.sa.Combine()</code> <ul style="list-style-type: none"> <li>▪ Requires Spatial Analyst</li> </ul> </li> </ul> </li> <li>• <b>Raster Hillshade 10m &amp; 30m</b> <ul style="list-style-type: none"> <li>◦ <code> arcpy.sa.Hillshade()</code> <ul style="list-style-type: none"> <li>▪ Requires Spatial Analyst</li> </ul> </li> <li>◦ <code> arcpy.BuildPyramids_management()</code> <ul style="list-style-type: none"> <li>▪ Requires Standard License</li> </ul> </li> </ul> </li> </ul> <p><b>Spatial Analyst</b></p> <ul style="list-style-type: none"> <li>• <b>Vector Hillshade 10m &amp; 30m</b> <ul style="list-style-type: none"> <li>◦ <code> arcpy.sa.RemapRange()</code></li> <li>◦ <code> arcpy.sa.Reclassify()</code></li> </ul> </li> </ul>
	Feature Layer Download	<b>Basic</b>
	Feature Service Attachment Download	<b>Basic</b>
	Feature Service Backup	<b>Basic</b>

<b>Incident Setup</b>	Create Event Point Numbering Guide	<b>Basic</b>
	Create Operations Grid	<b>Basic</b>
	Incident Setup AGOL	<b>Basic</b>
	Incident Setup ArcGIS Pro	<b>Basic</b>
	Invite Remove Users AGOL	<b>Basic</b>
<b>Miscellaneous</b>	Bookmarks to Index Feature Class	<b>Basic</b>
	Create Content Summary AGOL	<b>Basic</b>
	Create Group Member List AGOL	<b>Basic</b>
	Summarize Folder Files	<b>Basic</b>
	Topo Raster 24K Symbolize	<b>Basic</b>