

### Construction Trades - Ratios

<b>Carpentry</b>	1:1 (1 apprentice to 1 employer/journeyworker)	thereafter, 1 apprentice to 3 journeyworkers
<b>Electrical</b>	<p><b>Shop ratio:</b> 1:1, then 2<sup>nd</sup> apprentice for 3-4 journeyworkers, then 2 more journeyworkers for each apprentice (between 5 and 12 journeyworkers), then 1 apprentice for each 2 journeyworkers</p> <p><b>Jobsite:</b> no more apprentices than journeyworkers (1:1) 5<sup>th</sup> year apprentices may work alone on jobs for which they are trained and qualified; they are ratio neutral but not counted as journeyworkers.</p>	
<b>Glazing</b>	1:1	thereafter, 1 additional apprentice for each 3 journeyworkers
<b>Heat &amp; Frost Insulation</b>	1:1	thereafter, 1 apprentice to 3 journeyworkers
<b>Heavy Equipment Operator</b>	1:1	thereafter, 1 additional apprentice for each 5 journeyworkers
<b>Ironworker</b>	1 apprentice for each 4 Structural and Reinforcing Ironworkers and 1:1 Ornamental Ironworker	
<b>Construction Craft Laborer</b>	1 apprentice for 3 journeyworkers, 2 apprentices for 8 journeyworkers; 3 apprentices for 30 journeyworkers; thereafter, 1 apprentice to 10 additional journeyworkers Apprentices with 3000 hours are ratio neutral.	
<b>Masonry</b>	1:1	thereafter, 1 apprentice to 1 journeyworker
<b>Operating Engineer</b>	1:1	thereafter, 1 apprentice to 6 journeyworkers
<b>Painting/Decorating</b>	1:1	thereafter, 1 apprentice to 3 journeyworkers 4 <sup>th</sup> year apprentices may work alone after completion of all paid and unpaid related instruction.
<b>Plumbing</b>	1:1 Master Plumber and licensed apprentices	2 journeyworkers to 1 apprentice; 3 journeyworkers to 2 apprentices; 4 journeyworkers to 3 apprentices; 5 or 6 journeyworkers to 4 apprentices; 7, 8 or 9 journeyworkers to 5 apprentices; 10 journeyworkers to 6 apprentices;

<b>Plumbing (cont'd)</b>		thereafter, 1 apprentice to 2 journeyworkers
	4 <sup>th</sup> and 5 <sup>th</sup> year apprentices may work alone after completion of all paid and unpaid related instruction and they are ratio neutral	
<b>Roofing</b>	1:1 or 2 journeyworkers	thereafter, 1 apprentice to 2 journeyworkers
<b>Sheet Metal</b>	1:1	thereafter, 1 apprentice to 2 journeyworkers
	5 <sup>th</sup> year apprentices may work alone for jobs for which they are trained and competent. 5 <sup>th</sup> year apprentices are ratio neutral.	
<b>Sprinklerfitting</b>	1:1 licensed journeyworker	thereafter, 1 apprentice to 1 licensed journeyworker
	Apprentices in final 12 months, who are current in educational requirements, are ratio neutral	
<b>Steamfitting</b>	1:1	2 <sup>nd</sup> apprentice if 3 journeyworkers; 3 <sup>rd</sup> apprentice if 5 journeyworkers; 4 <sup>th</sup> apprentice if 7 journeyworkers