Adapted from the Ohio Bureau of Workers' Compensation Ergonomics Best Practices for Plastics Industry

Situation	Reasons for concern	Best Practice	Results (° per 200,000 hours worked)
Trimming or removing flash	<ul> <li>Risk of MSDs (e.g. tendinitis or carpal tunnel syndrome)</li> <li>Risk of low back pain</li> </ul>	Deflashing fixtures and presses	<ul> <li>Reduced musculoskeletal disorders (MSDs)</li> <li>Average risk factor score 32.5 to 21</li> </ul>
Secondary operations (assembly)	<ul> <li>Risk of hand and wrist MSDs (tendinitis and carpal tunnel syndrome)</li> </ul>	<ul> <li>Hand tool/workstation design</li> <li>Automatic screw-feeding systems</li> <li>Inline screw guns</li> <li>Pistol-grip guns</li> <li>Two parallel arm workstations</li> </ul>	Reduced MSDs <ul> <li>Average risk factor score 25 to 17</li> </ul>
Carrying, lifting and mixing material	<ul> <li>Stress on the shoulders and back</li> <li>Risk of back pain and shoulder injuries</li> </ul>	Bulk handling system Automatic mixer	<ul> <li>Reduced MSDs</li> <li>Incident rate° from 78.3 to 20.3</li> <li>Days lost from 392 days° to 198 days°</li> <li>Turnover rate° 141 to 81</li> <li>Average risk factor score 32 to 23</li> </ul>
Bending to retrieve parts in boxes or bins	Risk of low back pain	Lift assist devices features with lift, tilt and/or turn item	<ul> <li>Reduced MSDs</li> <li>Days lost from 87.6 days° to 33.0 days°</li> <li>Average risk factor score 44.3 to 20.9</li> </ul>
Retrieving ejected parts located under the molding machines	Risk of MSDs, especially back injuries	Conveyor	<ul><li>Reduced MSDs</li><li>Average risk factor score 24 to 0</li></ul>
Cleaning, assembling or packing parts at a workstation	<ul> <li>Stress on the shoulders and spine</li> <li>Risk of MSDs (e.g. carpal tunnel syndrome)</li> </ul>	<ul> <li>Ergonomic workstation design</li> <li>anti-fatigue floor mats</li> <li>Chairs with lumbar support, armrest, adjustable features, padding and easy to reach and operate controls</li> </ul>	<ul> <li>Reduced MSDs</li> <li>Restricted 127.9 days° to 87.6 days°</li> <li>Average risk factor score 33.2 to 24.4</li> </ul>

Situation	Reasons for concern	Best Practice	Results (° per 200,000 hours worked)
Handling resin barrels	Stress on the spine	Barrel-handling hoist system	Reduced MSDs
	• Risk of MSDs, especially back		<ul> <li>Incident rate<sup>◦</sup> from 15.2 to 0</li> </ul>
	injuries		• Turnover rate <sup>o</sup> 137 to 50.3
			• Average risk factor score 323 to 21