Control Strategies in Manufacturing

- Changing tools or modifying power or hand tools by, changing the torque profile, reducing tool weight, adding improved grips, changing angles or positions of handles changing tool centre of mass, suspending the tool
- Changing the manufacturing or production process to reduce MSD hazards such as presenting a part in a good orientation to a worker, changing conveyors to reduce reaching, new process that reduce forces required
- Changing the sequence of assembly or operations to reduce repetitive work or access to parts
- Adjusting the pace of work through line speed changes
- Changing the method of how parts and materials are transported and stored such as lift tables or conveyors or hoists or flow-through rack systems
- Removing obstructions or adding adjustability to reduce awkward postures

Marklin R. General Knowledge Regarding Engineering Controls in *Interventions, controls and Applications in Occupational ergonomics*, Marass and Karwowski (eds), CRC, 2006.