

# Task-Specific Tool Mapping Sheets

Pre-Mapped PSC Control Sheets for Common Hand Exposure Tasks

Engineer the Hand Out of Hazard™ · Where Does the Hand Enter the Hazard?™ · Start with the task — not the product.

## OPENING STATEMENT

A hand safety tool should not be selected only because it looks suitable. It should be selected because the task has been mapped: where the hand enters, what function the hand performs, what hazard exists, and what control can move the hand away from that exposure. These sample mapping sheets show how common high-exposure tasks can be documented before selecting a standard tool, modified tool, magnetic tool, hose or tubular handling tool, fixture, or custom interface.

## CORE DOCTRINE

<p><b>Engineer the Hand Out of Hazard™</b> Primary PSC doctrine</p>	<p><b>Where Does the Hand Enter the Hazard?™</b> Task-level mapping</p>	<p><b>Measure Exposure Before Injury Happens™</b> Proactive assessment</p>	<p><b>Start with the task — not the product.</b> Selection principle</p>
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## SAMPLE TASK MAPPING SHEETS

1 Suspended Load Final Positioning	
<b>Task</b>	Final positioning / landing of suspended load
<b>Hand Exposure</b>	Hand between load and landing point / fixed structure
<b>Hazard Type</b>	Crush · Pinch · Caught-Between · Line of Fire
<b>Hand Function</b>	Guiding, pushing, aligning, correcting
<b>Control Direction</b>	Hands clear before descent; load-control line for swing; push/pull or positioning tool for final alignment
<b>Tool Category</b>	Tagline / load-control line · Push/pull tool · Load positioning pole · Magnetic tool where suitable
<b>Residual Controls</b>	Lift plan · Exclusion zone · Crane control · Competent rigger · Stable landing surface

2 Hammering / Pin / Chisel Holding	
<b>Task</b>	Holding pin, chisel, wedge, drift or struck tool during hammering
<b>Hand Exposure</b>	Hand close to hammer impact zone
<b>Hazard Type</b>	Impact · Crush · Pinch · Cut
<b>Hand Function</b>	Holding, positioning, stabilising struck tool
<b>Control Direction</b>	Move hand away from impact zone using a holder
<b>Tool Category</b>	Fingersaver · Chisel holder · Pin holder · Wedge holder
<b>Residual Controls</b>	Correct hammering method · Eye/face protection · Impact gloves · Tool condition · Controlled striking

3 Hose Connection / Disconnection	
<b>Task</b>	Guiding, lifting, holding or positioning hose near coupling / connection point
<b>Hand Exposure</b>	Hand near coupling, stored pressure zone, flange face or whip path
<b>Hazard Type</b>	Pinch · Crush · Stored Energy · Line of Fire
<b>Hand Function</b>	Holding, lifting, guiding, connecting, disconnecting
<b>Control Direction</b>	Keep hands away from coupling and pressure zone
<b>Tool Category</b>	Specialised hose handling tool · Support aid · Distance handle · Fixture where suitable
<b>Residual Controls</b>	Pressure isolation · Depressurisation · LOTO where applicable · Whip checks · Site procedure

4 Ferrous Plate / Section / Mould Box Positioning	
<b>Task</b>	Positioning steel plate, channel, section, mould box or ferrous fixture
<b>Hand Exposure</b>	Hand on edge, lug, corner, side wall, locating point or landing area
<b>Hazard Type</b>	Pinch · Crush · Cut · Caught-Between
<b>Hand Function</b>	Pushing, pulling, stabilising, aligning, retrieving
<b>Control Direction</b>	Engage load from a distance where surface is suitable
<b>Tool Category</b>	Magnetic tool · Push/pull tool · Hook / distance tool · Fixture
<b>Residual Controls</b>	Confirm magnetic suitability: surface, coating, rust, oil, temperature, contact area, geometry, direction of force

## ADDITIONAL TASK MAPPING EXAMPLES

TASK	HAND EXPOSURE	POSSIBLE CONTROL DIRECTION
Coil / tray / rack adjustment	Fingers between tray, coil, rack or frame	Push/pull tool, hook tool, fixture – only after isolation where equipment is involved
Tubular / pipe positioning	Hand on pipe, casing, tubing, roll or cylinder	Tubular handling tool, pipe positioning tool, V-head / cradle interface
Sharp sheet / profile handling	Hand on sharp edge	Fixture, edge-control aid, distance tool; cut-resistant gloves as residual PPE
Hot billet / casting / die handling	Hand near hot material	Distance tool, handling aid, heat-rated fixture, temperature confirmation before contact
Machinery / conveyor intervention	Hand reaching into machine, roller, conveyor, press or jammed equipment	Redesign task · Isolate / LOTO · Approved tool only after equipment is made safe
Gearbox / heavy component alignment	Fingers at shaft, bearing, housing or mating point	Push/pull tool, custom head, fixture, mechanical guide; heat controls where applicable

### When a Standard Tool May Not Be Enough

A modified or custom tool interface may be required when:

- › The contact surface is irregular
- › The access angle is awkward
- › The load is hot, sharp, oily, coated, or unstable
- › The task is repeated frequently
- › The tool slips, rotates, or disengages
- › The worker still needs to place a hand into the hazard zone
- › The task involves precision final alignment
- › The geometry does not match a standard head

### Request a Customised Mapping Sheet for Your Plant Task.

Send us:

- 3-5 task photos or a short video
- Load weight / size if known
- Task frequency
- Where the hand currently enters
- Current method used
- Injury / near-miss history if available
- Site restrictions or safety requirements

#### PSC HAND SAFETY CAN RETURN A MAPPING SHEET SHOWING:

- › Hand exposure point and hazard type
- › Task function and recommended control category
- › Possible tool direction
- › Residual safety controls
- › Whether a standard, modified, magnetic, fixture, or custom interface is required

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## MAPPING COLUMN REFERENCE

COLUMN	WHAT TO RECORD
Hand Exposure	Where and how the hand enters the hazard
Hazard Type	Pinch, crush, cut, burn, impact, caught-between, line of fire, stored energy
Hand Function	Push, pull, guide, align, hold, stabilise, retrieve, connect, strike
Control Direction	The approach to moving the hand away from the hazard
Tool Category	The class of tool or interface that delivers the control
Residual Controls	Remaining site controls required after the tool is in use

### PPE Remains Residual Protection

After the task has been mapped and a control tool is in use, PPE – gloves, eye protection, face shield, safety footwear – continues to provide residual protection against remaining exposure. PPE is not removed from the control set; it is repositioned within it.