TRADE AREA: CONSTRUCTION INDUSTRY- PLUMBING:

Some possible workplace hazards and possible ways for Host employers and Apprentices/Trainees in controlling these hazards.

What are possible hazards?	What could be possible control measures?
Manual handling (bending, reaching, stretching, pulling, lifting, repetitive motions, awkward postures)	 Mechanical load shifting devices (e.g. hand trucks, pipe trolleys) used to move materials around the site or from the site Mechanical devises used to lift and hold pipes in position Smaller sizes of ordered materials (e.g. cement bags of 20kg instead of 40 kg) Walkways are clear for barrows Avoid working in front of face and always away from the body Sharp edges of metal sheeting and strips are covered. Protective caps fitted to the end of all thread droppers & exposed rebars PPE suited to the task (e.g. long trousers, boots, knee protection pads, puncture/impact/resistant gloves) Training provided in safe manual handling techniques
Using hand tools	 Power tools are lightweight, low vibration, noise restricted and fitted with clutches and suitable for the task Rotate workers through a variety of tasks so workers are not undertaking the same task or holding the same postures for extended periods Shovels etc. are suitable for the type of digging task, including long handles to minimize bent postures Manual digging avoided by using mechanical excavation methods where possible Pipe cutters used instead of hacksaws Work gloves absorb impact energy, provide protection from sharp edges and are puncture resistant A/T provided with instruction in safe use of hand tools
Slips, trips and falls	 Highest levels of falls protection (e.g. guard railing, scaffolds, physical barriers or elevated work platforms) Excavations covered or temporary barriers installed to prevent falls into the excavation Ensure all working areas and access ways are clean, level, well-lit, in good repair and clear of potential/actual tripping hazards Unwanted material and construction waste regularly removed from the site so it does not accumulate Construction materials, power leads, tools and equipment positioned to avoid creating tripping hazards.
Noise	 Hearing loss prevented by using noise insulated hired, subcontracted, directly owned) equipment (e.g. silence compressors) Barriers and screens used to block the direct path of sound Hearing protection provided and worn when using power tools Warning signs placed in areas of excessive & continual noise Employees are not exposed to noise that exceeds the national exposure standard Source of the noise is eliminated Noisy equipment positioned away from other work areas Powered tools are maintained to reduce noise A/T 's exposure to excessive noise is limited A/T trained in how to use hearing protection correctly Audiometric tests undertaken as required
Working at ground or floor level Hot weather conditions	 Tables, benches or stands used to bring work to waist height Tools used with extension handles (e.g. nail guns etc.) to avoid bending Personal protective equipment provided (e.g. knee pads etc.) Workers rotated through a variety of tasks Work re-scheduled when extreme weather conditions present risk

	Regular rest breaks provided
	Water facilities available
	A/T dressed appropriately for the conditions
Fire	Fire warden in place
	Fire extinguisher regularly checked
	Fire evacuation drills conducted annually/six monthly
	Evacuation map and procedures displayed & staff instructed in correct evacuation
	procedure
	Surveillance system in place to spot intruders
Electric shock	Rubber –soled shoes worn
	Check the power is off – never assume it is
	Electrical source isolated with a lockout/tagout procedure
	Circuits are tested before commencing work
	Work avoided in damp conditions
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	A non-conductive (fiberglass) ladder is used when working with electricity Tasking 8 to pring it assumes to
	Testing & tagging is current
Open flame operations	A/T adequately trained in use of blowtorch or plumber's furnace
	Devices not used in small, unventilated spaces
	Explosive vapours or dust removed before work stated
	An appropriate fire extinguisher is on hand
	All combustible material removed
Dangerous goods &	Adequate ventilation provided
Hazardous substances (e.g.	Splash guards in place where applicable
natural gas, oxyacetylene,	Written risk assessments conducted to identify hazardous substances and control the risks
glues, solvents)	MSDS sheets available for substances classified as hazardous/dangerous
	Substances are stored safely and securely when not in use
	A/T trained in the safe use of hazardous/dangerous substances and the required PPE
	All hazardous/dangerous substances are labeled
	First aid kits provided
	First aid & emergency procedures in place and communicated to A/Ts
Poorly maintained heating,	Regular maintenance undertaken to ensure heating, ventilation and air conditioning
ventilation & air	working efficiently at all times
conditioning	Appropriate personal protective equipment provided to A/Ts
Bullying and harassment	Bullying & harassment policy displayed in the workplace
	Bullying & harassment policy & procedures explained to all employees
	Procedures for reporting & resolving incidents in place and explained to all employees
	Workers have received information, instruction and training in relation to dealing with
	bullying and harassment
	Workers are trained in recognition of, communication for & management of bullying &
	harassment
	 Procedures in place to ensure timely and appropriate counseling is provided to workers
	following a workplace bullying/harassment/aggressive/violent incident
Working at Heights	
Working at neights	Perform the task on the ground if possible Perform the task on the ground if possible Perform the task on the ground if possible
	Use of a passive fall prevention device (passive fall prevention device means material or
	equipment, or a combination, that is designed for the purpose of preventing a fall, and
	that, after initial installation, does not require any ongoing adjustment, alteration or
	operation by any person to ensure the integrity of the device to perform its function.
	Example: Temporary work platform, roof safety mesh or guard railing
	Use of a work positioning system to ensure employees work within a safe area (work
	positioning system means - An industrial rope access system; or A travel restraint system;
	or Any other equipment, other than a temporary work platform, that enables a person to
	be positioned and safely supported at a work location for the duration of the task being
	undertaken at height.
	Install a fall arrest system to limit risk of injuries in the event of a fall (fall arrest system
	means equipment or material or a combination of equipment and material that is designed
	to arrest the fall of a person. Example: Industrial safety net, catch platform or safety

	harness system (other than a travel restraint system).
	 Ensure ladders are compliant with AS 1892 and are regularly checked and maintained in a safe condition
	 Inspect the work area prior to the commencement of work to ensure that all platforms & surfaces are stable and structurally sound
	Specific risk areas clearly signposted
	Develop and document safe work procedures to outline the way the hazard will be managed
	 Provide training to employees to provide them with the skills& knowledge to do their work safely such as training in the use of falls protection equipment etc.
	Monitor the work at height practices of all employees to ensure they are working safely
Working overhead or above	Mechanical devices used
shoulders	Workers positioned at a height (e.g. scaffolds) which allows work to occur without
	reaching above the head
Trenches	Competent person conducts daily inspection of the trench worksite prior to start of work and also where there is a change in conditions such as a rainstorm
	 Any heavy equipment and other soil impediments are kept as far back as possible from the edge of the trench
	 Wear and use all the PPE provided and required for the job (e.g. hard hats, high visibility clothing)
	Vibration sources are minimized near the trench
	Angle of the trench graded back to prevent the walls from collapsing
Working alone	There is a system in place for communicating with workers working alone
	The system ensures that workers have means of communicating in the event of emergency
	(e.g. mobile phones, duress alarms)
	 The system requires regular contact to be maintained with workers to ensure safety & supervision
	The employer has knowledge of the location of all workers at all times during work shifts.