

# HYNDS PKS ONSITE TRAINING RECORD SHEET

## Training records - site establishment stage

This training will cover a theory session for approx 1 hour and an onsite hands-on session over a 1-2 day period prior to sign off by supplier. Training may include but not limited to;

- **Storage and Installation:** This involves creating a designated storage area for the Polyethylene pipes, managing pipe loading and unloading procedures, considering the thermal properties of Polyethylene during installation, ensuring proper joint insertion and witness mark verification, as well as implementing appropriate pipe support and joint checking techniques.
- **Extrusion Welding:** The process of extrusion welding will be utilised for creating joints, incorporating additional inlets/outlets as needed, and making minor on-site alterations to the Polyethylene pipes. Only authorised personnel that have undergone training would be able to perform extrusion welding to the Hynds PKS pipes and fittings.
- **PKS Electro-Fusion Welding:** We will employ PKS electro-fusion welding for specific joint requirements in the project. Only those authorised to complete EF welding will be able to perform this process.
- **Field Testing of Non-Pressure Pipelines:** Rigorous field testing will be conducted to evaluate the performance and integrity of non-pressure pipelines, ensuring they meet the necessary standards and requirements. Training will be given around the SOP and daily calibration of equipment supplied by Hynds PKS. Those who undergo training and are signed off should be the only personnel who can test the pipeline.

Attendees	Position	Training module	Signed	Date
		Installation		
		Pipe Testing		
		Welding - EF		
		Welding Extrusion		

### Notes to training records

- Contractor or sub-contractor personnel sign off attendance of Hynds PKS site and installation training. New personnel are required to undergo training if current or previous team relocate to another job.
- Pipe joint testing records / pipe joint tester daily calibration records (leak testing and pre pressure testing) / gauge checking.
- For optimal results, we recommend using a 6mm thick plywood or a similar material (measuring 750mm in length and 1/3 of the outside diameter of the pipe) beneath the joint. This will effectively prevent any foreign objects from entering between the socket and spigot.
- Pipe insertion to witness mark (witness mark checks by contractor prior to installation) and internal gap checks to ensure deflection is not more than .5-1 degrees per pipe and centre line is on top of the pipe. No debris is sighted within the pipe joint
- Manhole or structure is lined up correctly to the pipeline regardless of any services intrusion and if any laying line issues are anticipated Hynds PKS can discuss relocation methodology to achieve this or will fabricate a bend to accommodate any last-minute changes that may occur.
- Compaction and embedment material proof to compaction and cover depths to AS / NZS2566.2 or approved design to be provided
- As-built locations can accurately show pipe is laid within the allowable 1-degree deflection as % of DN pipe size against previous and following pipe sections.

## Bello testing of the joints

Hynds PKS will provide as part of the supply contract a working and calibrated bello testing unit which is rolled into the pipe and positioned in between each pipe joint (see SOP which is provided along with training of the testing equipment). For pipe sizes under DN800 it may be best to use a plug and plugzee test unit every 2-3 pipes



Daily pipe record for QA checks and sign off example

Pipe # / chainage / gps ref	Spigot inserted so part of witness mark can still be seen	Internal gap between spigot and socket is even and no more than 5mm	Pressure test completion pass with bello testing unit	Pipe gps location within 1 degree angle deflection from previous pipe?	Damage / insert issues notes
1	yes	Yes - photo	Yes - photo	Yes / no -reason	Comments for supplier or client ref and NCR

Daily Calibration records example

Bello test unit DN size	Check for leaks	Gauge working correctly	No external damage or issues with fittings	Signed off by	Signature & date
DN800	Held pressure for 5 minutes	Yes – bello test performed inside test pipe all good	no	A. Smith	