

Oil Pipeline Welding & Radiography Safety Inspection Checklist

Site / Project	_____	Address	_____
Inspector name	_____	Company	_____
Date	_____	Time	_____

Documentation aid only. Adapt this resource to the site, manufacturer instructions, and applicable local requirements. It does not replace a competent person, professional judgment, legal advice, or a required statutory form.

Inspection checklist

Radiography (NDT) Safety

☐ Is the radiation boundary established and clearly marked with warning signs and ropes/barriers?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Are all personnel dosimeters calibrated and within their valid calibration period? Verify calibration certificates.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Is a calibrated and functional survey meter available at the radiography site? Verify battery level and calibration date.	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Is the two-person rule being strictly enforced during radiography operations?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Are emergency procedures, including contact information for radiation safety officer, clearly posted at the radiography site?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Is the radiographic source properly secured when not in use to prevent unauthorized access?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Are NDT barricades and warning signs secured and maintained overnight to prevent unauthorized entry into the radiation area?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Are clear communication protocols established between the radiographer and all personnel in the vicinity to ensure awareness of radiation hazards?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Is a daily inspection of radiography equipment performed and documented to identify any defects or malfunctions?	☐ Pass	☐ Fail	☐ N/A	Notes: _____

☐	Is access to the radiography area restricted to authorized personnel only?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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Trenching and Lowering-In Safety

☐	Is adequate trench shoring or sloping in place to prevent trench collapse during lowering-in operations? (Competent person inspection documented?)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Has a competent person inspected the trench daily for hazards, and is the inspection documented?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Is the spoils pile located at least 2 feet (0.6 meters) from the edge of the trench?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Are all underground utilities located and marked before excavation begins? (811 call completed?)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Is a safe means of access and egress (ladder, ramp, stairs) provided for trenches 4 feet (1.2 meters) or more in depth?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Is heavy equipment kept a safe distance from the trench edge to prevent collapse?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Is lifting equipment (cranes, slings) used for lowering-in inspected and load tested per manufacturer's specifications?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Is a qualified rigger supervising the lowering-in operation?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Is a dedicated spotter present during lowering-in to guide the pipe and prevent collisions?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Is an emergency rescue plan in place and communicated to all workers in case of trench collapse?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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Welding Safety

☐	Is the welding habitat properly constructed and maintained to prevent the accumulation of flammable gases?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Are appropriate fire extinguishers readily available and easily accessible within the welding habitat and surrounding area?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Is a valid hot work permit issued before welding operations commence?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Are spark arrestors installed on welding equipment to prevent sparks from igniting flammable materials?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Have all flammable materials been removed from the welding area or adequately protected from sparks and heat?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is adequate ventilation provided to remove welding fumes and gases from the welding habitat?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is the welding equipment properly grounded to prevent electrical shock?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are welding electrodes stored in a dry environment to prevent moisture contamination?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are welders wearing appropriate PPE, including welding helmets, gloves, and flame-resistant clothing?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are compressed gas cylinders stored upright and secured to prevent tipping?	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Personal Protective Equipment (PPE)

☐	Are hard hats worn by all personnel in designated areas?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are safety glasses or face shields worn by all personnel exposed to eye hazards?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are steel-toe boots worn by all personnel in areas where foot injuries are possible?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are high-visibility vests or clothing worn by all personnel working near moving equipment?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is hearing protection available and used in areas with high noise levels (above 85 dBA)?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is respiratory protection provided and used when welding fumes or other airborne contaminants are present?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are appropriate gloves worn for the task being performed (e.g., welding gloves, chemical-resistant gloves)?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is PPE inspected regularly for damage or defects?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are welders wearing flame-resistant (FR) clothing?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is an eyewash station readily available in areas where corrosive materials are used?	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Documentation and Training

☐	Is a written radiation safety program in place and readily available?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are welders qualified and certified for the type of welding being performed?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are NDT personnel certified to the appropriate level (e.g., ASNT Level II) for the NDT methods being used?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is a hazard communication program in place, including SDSs for all hazardous materials?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is a confined space entry program in place if welding or radiography is performed in confined spaces?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is an emergency response plan in place and communicated to all workers?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are training records maintained for all personnel, including radiation safety, welding safety, and trenching safety?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Have all personnel received a site-specific safety orientation?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are daily toolbox talks conducted to address specific hazards and safety procedures?	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is a system in place for reporting and investigating incidents and near misses?	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Findings

#	Item	Location	Severity	Action required
1				
2				
3				
4				
5				
6				
7				
8				

Signature

Inspector signature _____

Name _____

Date _____