
OQ Task Name

Task XX.X – Cutting on Steel Pipeline

1.0 Task Description

This task involves the use of cutting equipment (e.g. cold cutter, torch, saw, chisel, plasma cutter) during the repair of steel pipelines. This task begins with the identification of the pipe to be cut and ends with the completion of the appropriate documentation for the task.

The performance of this covered task may require the performance of other covered tasks such as:

- Observe Excavation Activities (Reference Task 32)

This task does not include but may lead to the performance of other covered tasks such as:

- Apply Coating Using Hand Application Methods (Reference Task 7.5)

2.0 Knowledge Component

An individual performing this task must have knowledge of:

- Operator-approved equipment for cutting, including:
 - Torches
 - Saws
 - Chisels
 - Cutters, such as: plasma cutters, travel cutters, clamshell cutters, split-frame cutters
- Hazardous atmosphere testing with combustible gas indicators
- Operator policies for the required timing and locations when testing for hazardous atmospheres while completing this task
- Ignition sources

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Abnormal operating conditions (AOC) associated with the performance of this task include:

AOC Recognition	AOC Reaction
Unexpected hydrocarbon	Make appropriate notifications

3.0 Skill Component

To demonstrate proficiency of this task, an individual must perform the following steps:

Step	Action	Explanation
1	Identify the correct segment of pipe for cutting.	This step ensures that the correct segment of pipeline has been exposed for cutting.
2	Prepare the pipeline surface for cutting.	Cleaning the surface prevents bladed tools from gumming up. When choosing an exact location for the cut, avoid areas with welds or significant pitting to ensure a clean cut. NOTE: Design plans may require NDT to ensure suitable location prior to cutting.
3	Support the pipeline.	Secure the pipeline with skids or vises, as needed, to prevent unintended movement and ensure a square cut.
4	Install bonding cables.	This eliminates the risk of static spark.
5	Install the cutter and supports, if applicable.	Ensure the cutter is aligned properly for the cut.
6	Cut the pipeline.	Cut the pipeline in accordance with the tool manufacturer's instructions.
7	Remove the cutter.	
8	Inspect the cut.	Inspect the cut to ensure it is square and even. Uneven edges may need to be recut, chamfered, or ground out in accordance with the work plan.
9	Document completion of the task.	Follow Operator procedures for appropriate documentation.