Statement of Work

Swagelok Valve Essentials Tube Fitting & Installation Training

Section A: Scope

1. Objective:

With this training it will train multiple individuals in the proper way to utilize and fabricate Swagelok valves and hose fittings which are used in testing multitudes of systems on both surface craft and submarines. This training will go very in depth with hose pressure application, fluid type for each type of hose and new Swagelok X & S series hoses. In addition the vendor will go in depth about different fittings for multiple applications in order for the mechanics to use the best possible fittings and valves depending on the job/system they are for. After this training students will have the knowledge to properly assemble testing equipment properly and in depth knowledge of different hoses and applications for all fittings and hoses.

Background/Introduction

This training is essential for proper assembly of testing equipment for piping systems that are nuclear, non-nuclear and nuclear interface systems which is mission essential. This is integral to having first time quality and no leaks or radiological spills due to failure of equipment. With this training these circumstances like this should be non-existent and increase speed and accuracy of the creation of Swagelok hoses and fitting equipment.

2. **Limitations of Work** If this training is not held it could cause delays in delivery of test equipment to projects which would delay ships from departing on their scheduled dates. This could also create situations where the wrong fittings are used due to lack of knowledge and delay jobs due to rework. This training should increase first time quality and increase production speed and accuracy where without may cause slower assembly or incorrect usage of hoses and/or fittings.

Section B: Applicable Documents

3. **Documentation:** *N/A*

Section C: Requirements

4. Scope of Work:

In this training the vendor will cover proper Swagelok tube fitting installation and inspection, safety considerations and best practices, tube fitting design and performance, tube selection, handling and best practices for such, fitting products to make the job easier as well as thread identification. The vendor will also provide preassembly that will include selection of the appropriate hose assembly materials and equipment needed, visual inspection of hose and hose ends, cutting to desired length, and use of skiving tools, Crimping will include installation of crimp collar onto hose, use of braid insertion fixture and hose expander, visual inspection of crimp and end connection, end connection insertion, and visual inspection. All 12 NNSY participants will practice pre-assembly and crimping of six Swagelok hoses.

5. **Contractor Responsibilities:** The contractor shall provide detailed information on all aspects of the outlined training including all training materials. The contractor will also include a practical and theoretical examination for retention purposes.

6. **NNSY Responsibilities:** NNSY is only expected to provide the employees requiring the training and space to perform it which will be in the [redacted] Section of BLDG [redacted] along with 2 days of off base training at the vendors facility.

7. **Government Furnished Property:** None

8. **Security Requirements:** None

9. **Delivery Terms/Shipping/Transportation** N/A

[redacted]

11. **Period of Performance (PoP)/ Completion Date/ Delivery Date:** This Training is broken up into 2 days at the vendor's facility and 1 day on site at NNSY for hose assembly training and 6 half day sessions over 3 consecutive days for valve and fitting training to be arranged after contract approval.

Section D: Contact Information

[redacted]