



Welding Inspector Specialist Examination Proposal for RAH Industries, Inc.

Background: RAH Industries has approached College of the Canyons for assistance in the development of an in-house training course and examination that meets requirements of AWS 5.2-2001 –Specification for the Qualification of Welding Inspector Specialists and Welding Inspector Assistants in addition to meeting the current business demands of RAH Industries. There are several components which need development to accomplish the scope of the project. College of the Canyons recommends the proposed work to be developed in the following order: 1) Establish the qualification requirements of the test participants and testing/retesting procedures 2) Construct the examination to meet/exceed the requirements of AWS B5.2 and RAH business needs 3) Develop training materials to prepare individuals for the examination and if needed, training for retesting. This Proposal also includes the Delivery of the training program and examinations for one cohort of students. All future cohorts of students will be at an additional charge based on the total number of instructional hours as listed below.

Suggested breakdown of the content and weight for the Welding Inspector Specialist Examination for RAH Industries:

PART A: FUNDAMENTALS	
Examination Component	Weight
Welding Processes	10%
Heat Control & Metallurgy (carbon and low-alloy steel)	6%
Weld Examination	11%
<i>Welding Performance</i>	12%
Definitions and Terminology	12%
Symbols – Welding and NDE	12%
Test Methods – NDE	10%
Reports and Records	6%
Duties and Responsibilities	4%
Safety	5%
Destructive Tests	6%
Cutting	3%
Brazing	2%
Soldering	1%
150 Questions (72% required for pass score)	100%

PART B: PRACTICAL (HANDS-ON)	
Examination Component	Weight
Procedure and Welder Qualifications	30%
Mechanical Test and Properties	20%
Welding Inspection and Flaws	20%
NDE	10%
Utilization of Specification and Drawings	20%
50 Questions (72% required for pass score)	100%

Part C: Code Book Applications (AWS D17.1)	
Examination Component	Weight
Materials and Design	10%
Fabrication	30%
Inspection	30%
Qualification	30%
50 Questions (72% required for pass score)	100%



	Total:	\$36,800.00
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<i>AWS Resource Materials (Per Student)</i>	Unit Price	
AWS WIT-T Welding Inspection Technology - 2008 Edition	\$272	
AWS D17.1/D17.1M:2010 - Specification for Fusion Welding for Aerospace Applications	\$160	
AWS VIW-M:2008 - Visual Inspection Workshop Reference Manual	\$76	
AWS 3.0M/A3.0:2010 - Standard Welding Terms and Definitions	\$164	
AWS A2.4-2012, Standard Symbols for Welding, Brazing, and Nondestructive Examination	\$156	
Welding Inspection Kits		
American Welding Society (AWS) Tool Kit	\$204	
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	Total per student	\$1,032

Additional Comments: This program, once developed, would be owned by RAH Industries for their sole use.
For more information please contact John Milburn, Director Employee Training Institute at 661-362-3245 or john.milburn@canyons.edu

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