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Vendor: API

Exam Code: API-580

Exam Name: Risk Based Inspection Professional

Version: Demo

QUESTION 1

_____ to be established to judge acceptability of risk could be an objective of the rbi assessment if such criteria do not exist already within the user's company.

- A. Risk criteria
- B. Risk plan
- C. Risk analysis

Correct Answer: A

QUESTION 2

The primary product of a rbi effort should be

- A. An inspection plan for each equipment item evaluated
- B. Mitigation plan for each equipment item evaluated
- C. Residual risk assessment plan for each equipment item evaluated

Correct Answer: A

QUESTION 3

In general the probability of failure is determined by

- A. Deterioration mechanism
- B. Effectiveness of inspection program
- C. Consequence detailed
- D. A & B

Correct Answer: A

QUESTION 4

Risk presented in qualitative risk analysis as

- A. Precise numeric value
- B. Form of risk matrix
- C. Form of event tree and fault tree

Correct Answer: B

QUESTION 5

Through _____, inspection activities are focused on higher risk items and away from lower risk items.

- A. Rbi
- B. Pha
- C. Rem
- D. Hazop

Correct Answer: B

QUESTION 6

If the probability and consequence combination (risk) is high enough to be unacceptable, then

- A. A mitigation action to predict or prevent the event is recommended.
- B. A mitigation action to predict or prevent the event is not recommended
- C. Warrant to analyze risks involved

Correct Answer: A

QUESTION 7

Quantitative risk analysis logic models generally consist of _____ and _____

- A. Event trees and fault trees
- B. Product trees and loss trees
- C. Likelihood trees and consequence trees

Correct Answer: A

QUESTION 8

Act of mitigating a known risk to a lower level of risk.

- A. Risk reduction
- B. Risk management
- C. Risk mitigation

Correct Answer: A

QUESTION 9

If the material of construction and internal/external conditions are the same

- A. Inspection results can be related from one equipment can be related to the other equipment
- B. We cannot do that, since we do not know about it
- C. Need to consult Equipment Engineer for final decision

Correct Answer: A

QUESTION 10

Provides a basis for risk evaluation, risk mitigation and risk acceptance

- A. Risk evaluation
- B. Risk estimation
- C. Risk identification

Correct Answer: B

QUESTION 11

The type of failure mode that likely to occur due to pitting

- A. Small hole sized leaks
- B. Small holes to ruptures
- C. Cracks
- D. Catastrophic rupture

Correct Answer: A

QUESTION 12

The probability of failure, when coupled with the associated consequence of failure (cof) (see section 11) will determine _____ associated with the equipment item,

- A. Operating risk
- B. Ranking
- C. Residual risk

Correct Answer: A

QUESTION 13

When equipment has low deterioration rates as an inspector what you decide in lieu of internal inspection.

- A. On-stream inspection
- B. Out of service inspection
- C. External inspection

Correct Answer: A

QUESTION 14

Qualitative consequence analysis of failure can be estimated separately for each unit, system, equipment group or individual equipment item.

- A. On the basis of expert knowledge and experience
- B. On the basis of available data
- C. On the basis of process and environmental conditions
- D. No basis required since it is qualitative

Correct Answer: A

QUESTION 15

The following types of pressurized equipment and associated components covered by rbi

- A. Rotating equipment
- B. Turbines
- C. Pressurized pumps

Correct Answer: A

QUESTION 16

Effective inspection program can be derived for RBI from

- A. Proper NDE method best suited for deterioration mechanism
- B. Inspection coverage
- C. Inspection frequency
- D. All the above

Correct Answer: D

QUESTION 17

Maintenance impact will generally be measured in monetary term and typically includes:

- A. Repairs and equipment replacement
- B. Method of cleanup
- C. Safety systems

Correct Answer: A

QUESTION 18

If multiple inspections have been performed, which inspection may best reflect current operating conditions?

- A. Most recent inspection
- B. Base line inspection survey
- C. Process conditions
- D. Corrosion survey

Correct Answer: A

QUESTION 19

If a qra has been prepared for a process unit, the analysis can borrow extensively from this effort.

- A. Rbi consequence
- B. Rbi likelihood
- C. Rbi probability

Correct Answer: C

QUESTION 20

Combination of the probability of an event and its consequence

- A. Risk
- B. Failure
- C. Loss
- D. Reduction

Correct Answer: A

QUESTION 21

When in accurate or insufficient failure data exists on the specific equipment item for quantitative probability of failure analysis then

- A. General industry, company or manufacturer failure data used
- B. Process hazard analysis failure data may be used
- C. Process and toxic concentration analysis may be used

Correct Answer: A

QUESTION 22

A physical condition or a release of a hazardous material that could result from component failure and result in human injury or death, loss or damage, or environmental degradation

- A. Hazard
- B. Loss
- C. Failure

Correct Answer: A

QUESTION 23

In most consequence evaluations, a key element in determining the magnitude of the consequence is

- A. The volume of fluid released
- B. Amount of surface area exposed due to toxic release
- C. Physical area impacted by release

Correct Answer: A

QUESTION 24

If a very aggressive acid is carried over from a corrosion resistant part of a system into a downstream vessel that is made of carbon steel, the result would be

- A. Rapid corrosion could result in failure in a few hours or days.
- B. General corrosion over a period of time could result in metal loss
- C. No deterioration will take place since carbon steel is resistant to aggressive acid

Correct Answer: A

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