Practice quiz: Certified Safety Professional (CSP)

10 questions. The answer key is on page 2.

Name _____ Date _____

1. **A truck strikes a dock door about once every two years, and each strike costs $80,000 in repairs and downtime. What is the expected annual loss?**
   A. $160,000
   B. $40,000
   C. $80,500
   D. $80,000

2. **A flood that would cause $1,200,000 in damage is expected about once every 20 years. What is its expected annual loss?**
   A. $60,000
   B. $24,000,000
   C. $1,200,000
   D. $600,000

3. **Which risk has the highest expected annual loss?**
   A. Risk D: 12 a year at $3,000
   B. Risk A: 4 a year at $15,000
   C. Risk C: 0.02 a year at $4,000,000
   D. Risk B: 0.1 a year at $500,000

4. **Four risks: P happens 8 times a year at $5,000 each; Q has a 0.01 annual frequency at $9,000,000; R happens 2 times a year at $35,000; S has a 0.25 annual frequency at $200,000. What is their order from highest to lowest expected annual loss?**
   A. P, R, S, Q
   B. Q, S, R, P
   C. R, Q, P, S
   D. Q, R, S, P

5. **A risk occurs 2 times a year at $50,000 per event. A control would cut the frequency to 0.5 a year and costs $30,000 a year. What is the control's net annual effect?**
   A. $75,000 net benefit
   B. $70,000 net benefit
   C. A net loss of $5,000
   D. $45,000 net benefit

6. **A control reduces a risk's expected annual loss from $90,000 to $30,000. Its annualized cost is $20,000. What is the benefit-cost ratio?**
   A. 4.5
   B. 1.5
   C. 3.0
   D. 0.33

7. **Risk X has 20 events a year at $2,500 each. Risk Y has a 0.0005 annual frequency at $100,000,000. Both have an expected annual loss of $50,000. Which deserves more attention, and why?**
   A. Y, because one event could exceed what the firm can absorb
   B. X, because it happens far more often
   C. Neither; equal expected losses mean equal priority
   D. Y, because rare events always occur more than estimated

8. **An injury type occurs about once every four years. Direct costs average $30,000 per event, and the company estimates indirect costs at 2 times direct costs, added on top of the direct costs. What is the expected annual loss?**
   A. $7,500
   B. $22,500
   C. $15,000
   D. $90,000

9. **A risk's expected annual loss of $50,000 rests on 0.5 events a year at $100,000 each. No loss occurred last year. Under a Poisson model, the chance of no event in a year is e^(-0.5), about 0.61. What does the loss-free year show?**
   A. The estimate was wrong; the expected loss is really zero
   B. The risk has fallen by half, to $25,000 a year
   C. The controls have now eliminated the hazard
   D. Little; about 6 years in 10 are loss-free

10. **A risk occurs 0.8 times a year at $250,000 per event. Control A cuts the frequency by 60%. Control B cuts the loss per event by 25%. With both in place, what is the expected annual loss?**
    A. $60,000
    B. $30,000
    C. $80,000
    D. $150,000

Original practice questions, never real or recalled exam questions. Not affiliated with or endorsed by BCSP or IHMM. Exam names are used descriptively.
Free 10-question check:
https://toeboardprep.com/bcsp-csp?utm_source=print&utm_medium=pdf&utm_campaign=bcsp-csp_content_202611&utm_content=quiz-pdf

Answer key

Certified Safety Professional (CSP). One line of why for each answer.

1. **B** Frequency = 1 / 2 = 0.5 a year.
2. **A** Frequency = 1 / 20 = 0.05 a year.
3. **C** EALs: C = 0.02 x 4,000,000 = $80,000; A = 4 x 15,000 = $60,000; B = 0.1 x 500,000 = $50,000; D = 12 x 3,000 = $36,000.
4. **D** EALs: Q = $90,000, R = $70,000, S = $50,000, P = $40,000, so Q, R, S, P.
5. **D** EAL before = 2 x 50,000 = $100,000.
6. **C** Benefit = 90,000 - 30,000 = $60,000.
7. **A** Equal EALs hide very different loss profiles.
8. **B** Loss per event = 30,000 + 2 x 30,000 = $90,000.
9. **D** At 0.5 expected events a year, about 61% of years will have no event, so one clean year is expected often and barely tests the estimate.
10. **A** Frequency = 0.8 x 0.4 = 0.32 a year.

Full explanations

Every question here has its full explanation in the free sample lesson. No signup.
toeboardprep.com/bcsp-csp/sample

Take the free 10-question check

Original practice questions, never real or recalled exam questions. Not affiliated with or endorsed by BCSP or IHMM. Exam names are used descriptively.
Free 10-question check:
https://toeboardprep.com/bcsp-csp?utm_source=print&utm_medium=pdf&utm_campaign=bcsp-csp_content_202611&utm_content=quiz-pdf