

SOLUTIONS FOR ENGINEERING ECONOMIC ANALYSIS 11TH EDITION

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Solutions for Engineering Economic Analysis 11th Edition

Question 1: What is the present worth of a project that has a first cost of \$100,000, an annual operating cost of \$20,000, and an expected salvage value of \$15,000 at the end of its 5-year life? Assuming an interest rate of 10%.

Answer:

$$\begin{aligned}PW &= -100,000 + (20,000 * P/A, 10\%, 5) + (15,000 * P/F, 10\%, 5) \\&= -100,000 + (20,000 * 3.7908) + (15,000 * 0.6209) \\&= \$-26,336\end{aligned}$$

Question 2: What is the annual equivalent of a project that has a first cost of \$50,000, an annual operating cost of \$10,000, and an expected salvage value of \$10,000 at the end of its 10-year life? Assuming an interest rate of 8%.

Answer:

$$\begin{aligned}AE &= (50,000 * A/P, 8\%, 10) + (10,000) - (10,000 * A/F, 8\%, 10) \\&= (50,000 * 0.1465) + (10,000) - (10,000 * 0.4632) \\&= \$10,543\end{aligned}$$

Question 3: What is the capital recovery factor (CRF) for a project with an interest rate of 6% and a 20-year life?

Answer:

$$\begin{aligned}CRF &= (i / (1 - (1 + i)^{-n})) \\&= (0.06 / (1 - (1 + 0.06)^{-20}))\end{aligned}$$

= 0.0872

Question 4: What is the payback period for a project that has a first cost of \$100,000, an annual net cash flow of \$20,000, and an expected salvage value of \$10,000 at the end of its 7-year life?

Answer:

Payback period = First cost / Annual net cash flow + (Remaining balance / Annual net cash flow)
= 100,000 / 20,000 + (20,000 / 20,000)
= 6 years

Question 5: What is the internal rate of return (IRR) for a project that has a first cost of \$75,000, an annual net cash flow of \$15,000, and an expected salvage value of \$5,000 at the end of its 6-year life?

Answer:

IRR = The interest rate at which the net present value (NPV) of the project is zero.
Using a financial calculator or spreadsheet, the IRR can be found to be 15.10%.

The Hike: A Guide to Firebase File Storage

What is Firebase File Storage?

Firebase File Storage is a Google Cloud service that allows Firebase apps to securely store and manage user-generated files. Files can be uploaded to storage and retrieved in a variety of ways, including through the Firebase SDK, command-line tools, or the REST API.

How do I use Firebase File Storage?

To use Firebase File Storage, you must first create a Firebase project and enable the File Storage service. Once you have done this, you can access File Storage through the Firebase console or the Firebase SDK.

Can I store any type of file in Firebase Storage?

Yes, Firebase Storage can store any type of file, including images, videos, audio files, and documents. There is no limit to the size of the files that can be stored.

How much does it cost to store files in Firebase Storage?

Firebase Storage offers a free tier that allows you to store up to 5GB of data per month. Beyond this limit, you will be charged a monthly fee based on the amount of data that you store.

Is Firebase Storage secure?

Yes, Firebase Storage is secure. All files are stored in Google Cloud Storage, which uses industry-leading security measures to protect your data.

Small Business Management and Entrepreneurship Certificate: Questions and Answers

1. What is a Small Business Management and Entrepreneurship Certificate?

A Small Business Management and Entrepreneurship Certificate is a non-degree credential designed to provide individuals with the knowledge and skills necessary to start, manage, and grow a small business. It typically covers topics in business planning, finance, marketing, operations, and strategy.

2. Who should consider obtaining a Small Business Management and Entrepreneurship Certificate?

This certificate is suitable for individuals who:

- Aspiring entrepreneurs who want to launch their own business
- Existing business owners seeking to enhance their management skills
- Employees who want to advance their careers in small business settings
- Professionals transitioning into small business ownership

3. What are the benefits of obtaining a Small Business Management and Entrepreneurship Certificate?

Earning this certificate can provide several benefits, including:

- Building a solid foundation in business fundamentals

- Enhancing your marketability and employability within small businesses
- Gaining practical knowledge and skills that can be immediately applied
- Establishing credibility and demonstrating commitment to your business venture

4. How do I obtain a Small Business Management and Entrepreneurship Certificate?

Typically, these certificates can be obtained through:

- Online or in-person courses offered by colleges, universities, or community colleges
- Continuing education programs
- Private training organizations

The duration and requirements vary depending on the institution.

5. What career opportunities are available with a Small Business Management and Entrepreneurship Certificate?

Individuals with this certification can pursue careers such as:

- Small business owner
- Business consultant
- Marketing manager
- Operations manager
- Entrepreneur

Twin Falls Community Hospital Case 5: Questions and Answers

Question 1: What were the main challenges facing Twin Falls Community Hospital in implementing the new electronic health record (EHR) system?

Answer: The hospital faced several challenges, including lack of staff training, inadequate communication with stakeholders, and resistance from physicians and nurses who were accustomed to the old system.

Question 2: How did Twin Falls Community Hospital overcome the challenges encountered during EHR implementation?

Answer: The hospital provided comprehensive training to staff, established clear communication channels with all parties involved, and engaged physicians and nurses in the planning and implementation process to address their concerns.

Question 3: What were the key benefits realized by Twin Falls Community Hospital after successfully implementing the EHR system?

Answer: The hospital experienced improved patient care through access to real-time patient information, enhanced efficiency due to streamlined processes, reduced medical errors, and increased patient satisfaction.

Question 4: How did the EHR implementation impact the hospital's finances?

Answer: While initial implementation costs were significant, the EHR system ultimately led to cost savings through reduced transcription errors, improved billing accuracy, and decreased reliance on paper records.

Question 5: What lessons can other healthcare organizations learn from Twin Falls Community Hospital's EHR implementation experience?

Answer: Healthcare organizations can learn the importance of proper staff training, effective communication, and stakeholder engagement. They should also consider implementing a phased approach to EHR adoption and integrate the system with existing workflows to minimize disruption.

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