KWM1 — KWM1 TASK 1

**IT STRATEGIC SOLUTIONS — MMT2**

**PRFA — KWM1**

TASK OVERVIEWSUBMISSIONSEVALUATION REPORT

COMPETENCIES

**321.1.3** : **Researching New Technology**

The graduate formulates personal research strategies for maintaining awareness of current and emerging technology.

**321.1.4** : **Strengths, Weakness, Opportunities, and Threats**

The graduate evaluates new technology opportunities for alignment with given organizations’ strengths, weaknesses, opportunities, and threats.

INTRODUCTION

Read the attached “AEnergy Company Case Study” before completing this task.

SCENARIO

AEnergy Company currently has operations in Fresno, California and Chicago, Illinois. Company management reviewed the company’s client list and realized that much of the company’s growth has been from an increase in clients in the eastern and southern parts of the United States. Management believes that these clients could be better served with more localized production and with sales locations in each region. The new locations would also provide an improved possibility for growth in the regional client base.

Before expansion can take place, the existing IT infrastructure will need to be evaluated to see how it needs to change to support the planned growth. You have been asked by the chief technology officer (CTO) to study the current IT infrastructure using a SWOT analysis. You will research current and emerging technologies and use your research to suggest an updated system that will resolve the identified deficiencies while also supporting the identified strengths the current system offers.

REQUIREMENTS

*Your submission must be your original work. No more than a combined total of 30% of the submission and no more than a 10% match to any one individual source can be directly quoted or closely paraphrased from sources, even if cited correctly. The originality report that is provided when you submit your task can be used as a guide.*

*You must use the rubric to direct the creation of your submission because it provides detailed criteria that will be used to evaluate your work. Each requirement below may be evaluated by more than one rubric aspect. The rubric aspect titles may contain hyperlinks to relevant portions of the course.*

A.  Perform a SWOT analysis of the existing IT infrastructure by doing the following:

1.  Evaluate the existing strengths of the current IT infrastructure.

2.  Evaluate the existing weaknesses of the current IT infrastructure.

3.  Analyze opportunities for updating technology within the current IT infrastructure.

4.  Analyze threats that could result from continued use of the current IT infrastructure.

B.  Analyze the results obtained in the SWOT analysis by doing the following:

1.  Identify *at least***two** ways to leverage the strengths of the current IT infrastructure to improve the company’s existing products and services.

a.  Identify *at least***two** opportunities within the current IT infrastructure to bring new products and services to the marketplace.

*Note: An appropriate opportunity must lie within the general confines of the IT infrastructure that is currently in place (i.e., no major IT purchases). Appropriate new product or service offerings can be intended for external customers or internal business units, which are also viewed as consumers of the IT unit’s product/service offerings.*

2.  Discuss the weaknesses and threats in the current IT infrastructure based on their impact or potential for impact.

3.  Discuss the one weakness or threat with the greatest potential for impact on the IT infrastructure.

C.  Research potential solutions that could address the weakness or threat discussed in part B3.

1.  Discuss your personal research strategies for identifying and evaluating current technologies.

a.  Give *at least***two** examples of current technology that could address the weakness or threat you discussed in part B3.

2.  Explain how you plan to stay informed about emerging technologies.

a.  Give *at least***two** examples of emerging technology that could help the company gain a competitive advantage.

D.  Recommend one specific IT solution that will best address the weakness or threat that you identified in part B3.

1.  Justify your recommended IT solution based on your research.  
  
*Note: An appropriate justification could be provided by discussing the pros and cons of each of the alternative solutions that you identified during your research activities in Parts C and C1a.*

E.  Acknowledge sources, using in-text citations and references, for content that is quoted, paraphrased, or summarized.

F.  Demonstrate professional communication in the content and presentation of your submission.

**File Restrictions**

File name may contain only letters, numbers, spaces, and these symbols: ! - \_ . \* ' ( )  
File size+ limit: 200 MB  
File types allowed: doc, docx, rtf, xls, xlsx, ppt, pptx, odt, pdf, txt, qt, mov, mpg, avi, mp3, wav, mp4, wma, flv, asf, mpeg, wmv, m4v, svg, tif, tiff, jpeg, jpg, gif, png, zip, rar, tar, 7z

**COMPETENT**

The candidate provides a logical evaluation, with sufficient detail, of the existing strengths of the current IT infrastructure.

**COMPETENT**

The candidate provides a logical evaluation, with sufficient detail, of the existing weaknesses of the current IT infrastructure.

**COMPETENT**

The candidate provides a plausible analysis, with sufficient detail, of opportunities for updating technology within the current IT infrastructure.

**COMPETENT**

The candidate provides a plausible analysis, with sufficient detail, of threats that could result from continued use of the current IT infrastructure.

**COMPETENT**

The candidate identifies, with sufficient detail, at least 2 ways to leverage the strengths of the current IT infrastructure to improve the company’s existing products and services.

**COMPETENT**

The candidate identifies, with sufficient detail, at least 2 opportunities within the current IT infrastructure to bring new products and services to the marketplace.

**COMPETENT**

The candidate discusses, with sufficient detail, the weaknesses and threats in the current IT infrastructure based on their impact or potential impact.

**COMPETENT**

The candidate provides a logical discussion, with sufficient support, of the 1 weakness or threat with the greatest potential for impact on the IT infrastructure.

**COMPETENT**

The candidate provides a logical discussion, with sufficient detail, of personal research strategies for identifying and evaluating current technologies.

**COMPETENT**

The candidate provides 2 or more examples of current technology that could address the weakness or threat that the candidate discussed in part B3.

**COMPETENT**

The candidate provides a logical explanation, with sufficient detail, of how the candidate plans to stay informed regarding emerging technologies.

**COMPETENT**

The candidate provides 2 or more examples of emerging technologies that could help the company gain a competitive advantage.

**COMPETENT**

The candidate provides an appropriate recommendation of 1 specific IT solution, with sufficient support, that will best address the weakness or threat that the candidate identified in part B3.

**COMPETENT**

The candidate provides a logical justification, with sufficient support, of the recommended IT solution based on the candidate’s research.

**COMPETENT**

The submission includes in-text citations for sources that are properly quoted, paraphrased, or summarized and a reference list that accurately identifies the author, date, title, and source location as available.

**COMPETENT**

Content reflects attention to detail, is organized, and focuses on the main ideas as prescribed in the task or chosen by the candidate. Terminology is pertinent, is used correctly, and effectively conveys the intended meaning. Mechanics, usage, and grammar promote accurate interpretation and understanding.

* Robert, A. S. (Ed.). (2009). Information Technology and the Ethics of Globalization : Transnational Issues and Implications. Hershey, PA, USA: IGI Global.
* Campbell, G. Michael. (2009). *Communications skills for project managers*. NY: AMACOM. ISBN: 9780814410530
* Paul, D., Cadle, J., & Yeates, D. (Eds.). (2014). Business Analysis (3). Swindon, GB: BCS, The Chartered Institute for IT. ISBN: 9781780172774
* Brennan, Linda L. and Johnson, Victoria E. (2004). *Social, ethical and policy implications of information technology*. Hershey, PA: IGI Global. ISBN: 9781591402886
* Friend, Graham and Zehle, Stephan. (2009). *Guide to business planning*. London, UK: Profile Books. ISBN: 9781846681226.
* Simon, Phil. (2011). *Why new systems fail: An insider's guide to successful IT projects*. NY: Revised Edition Cengage Learning. ISBN:9781435456440
* Smith, Gregory S. (2006). *Straight to the top: Becoming a world-class CIO*. Hoboken, NJ: John Wiley & Sons, Inc. ISBN: 9780471744788
* Tipton, Harold F. and Krause, Micki. (2007). Information security management handbook (6th ed.). London, UK: Auerbach Publications. ISBN: 9780849374951

5 Steps to Evaluate New Emerging Technology

<https://blog.capterra.com/evaluate-new-emerging-technologies/>

Cybersecurity & Infrastructure Security Agency

<https://www.cisa.gov/uscert/ncas/tips/ST05-003>

Graham Friend, Stefan Zehle - 5h 5m5hours 5minutes

Publisher: Profile Books © 2009 “Guide to Business Planning”

Host Advice <https://hostadvice.com/how-to/how-to-determine-the-correct-size-and-type-of-a-web-server/>

How can you turn emerging technology into a competitive advantage <https://www.ey.com/en_us/consulting/how-you-can-turn-emerging-technology-into-a-competitive-advantage>

WEP vs WPA vs WPA2 vs WPA3: WiFi Security Types Explained <https://www.makeuseof.com/tag/wep-wpa-wpa2-wpa3-explained/>

WPA2 vs WPA <https://www.lifewire.com/wpa2-vs-wpa-for-wireless-security-3971350>

Yeates, D., Cadle, J., Eva, M., Hindle, K., Paul, D., Rollason, C., & Turner, P. (2014). *Business*

*analysis*. BCS Learning & Development Limited.