

Self-Directed Learning (Topic 1)

Date: 14th November 2016

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TOPIC 1 - SELF-DIRECTED LEARNING MATERIAL

Questions

Please provide the answers for the following questions.

- 1.) What problems are commonly seen with Lean?
- 2.) What problems are commonly seen with Six Sigma?
- 3.) What problems are commonly seen with business process re-engineering?
- 4.) What problems are commonly seen with EFQM?
- 5.) When an organization needs to use re-engineer for an already existing business process, what is the most important thing to do?
- 6.) Which are the principles of Lean?
- 7.) Which are the principles of Six Sigma?
- 8.) Which are the principles of BPR?
- 9.) Which are the principles of EFQM?
- 10.) Which methodology do you prefer? And would you consider combining more than one?
- 11.) Outline which are the applications of re-engineering and further explain those by providing real life examples (business vision, process objectives, re-designing processes, measuring existing processes, IT levels, prototypes of processes)
- 12.) What is the history, methodology and some of the criticism of BPR?
- 13.) What is the history and methodology of Six Sigma?
- 14.) What role does IT play in the BPR cycle (Transactional, Geographical, Automatical, Analytical, Informational, Sequential)?
- 15.) What is the history and methodology of Lean?
- 16.) What is the history and methodology of EFQM?
- 17.) Prevention costs are considered a cost of quality?

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Multiple Choice Questions (Please choose the correct answer for each). Based on [1].

18.)	Which	statement	reflects	the	influence	of	sequential	life	cycle	models	on	improveme	nt
con	text?												

- A) Test process improvement models are intended for use with sequential life cycle models only.
- B) The main opportunity for test process improvement is at the end of the project.
- C) Improvement activities focus mostly on process conformance issues (not limited to just process conformance.
- D) There is more opportunity to address organizational improvements.

19.) Which of the following is the lowest risk, least e	extent of change?						
a) Business process automation	b) Discontinuous change.						
c) Business process improvement	d) Business process re-engineering						
e) None of the above							
20.) Lean/ Six Sigma is an approach to quality that requires minimal resources to achieve results							
A) True	B) False						
21.) It is important to tie Six Sigma projects to organizational strategy.							
A) True	B) False						
22.) Which test strategy would support a test improvement approach centered around tools?							

- A) Dynamic
- B) Methodical
- C) Model-based
- D) Regression averse
- 23.) A commonly used structure for continuous improvement is known as
 - A) The principle of quality
 - B) The quality improvement story
 - C) Benchmarking
 - D) The Kano model

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24.) DMADV indicates

a) Design of new products b) ISO 9000 2000 certification

c) The Baldrige award d) Improvement of existing products

25.) ROQ means:

a) Assessing the financial return of investments in quality.

c) Evaluating defect rates in manufacturing processes

b) Evaluating rates of improvement in service

quality

d) None of these

Additional Resources

- [1] OPERATIONS NOW (2016) Multiple Choice Quiz. Available at: http://highered.mheducation.com/sites/0073124494/student_view0/chapter6/multiple_choice_quiz.html (Accessed: 13 November 2016).
- [2] ELITE TRAINING (2015) *Continuous Improvement*. Available at: https://www.elitetraining.co.uk/continuous-improvement/continuous-improvement (Accessed: 4 November 2016).
- [3] SIX SIGMA (2016) *Icebreakers Training Exercises*. Available at: https://www.isixsigma.com/topic/icebreakers-training-exercises/ (Accessed: 4 November 2016).
- [4] BUSINESS DISTIONARY (2016) What is Process Improvement? In Business Dictionary. Available at: http://www.businessdictionary.com/definition/process-improvement.html (Accessed: 4 November 2016).
- [5] DEPT OF TRADE & INDUSTRY (UK) *Process Understanding & Improvement*. Available at: http://www.businessballs.com/dtiresources/TQM_process_management.pdf (Accessed: 4 November 2016).

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