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Best cqe study guide

This book is primarily meant to help those who take the ASQ Certified Quality Engineer (CQE) exam and are best used in conjunction with The Certified Quality Engineer Handbook. Section 1 provides 380 practice questions organised by the seven parts of the 2015 Body of Knowledge (BOK). Section 2 gives the reader 205 additional practice questions from each of the seven parts, in a randomized order. For each question in both sections, detailed solutions are provided explaining why each answer is the right one and also which section of the BOK question corresponds to so that each additional study needed can focus on specific sections. A secondary audience are those who graduate for ASQ certifications whose BOKs have some crossover with CQE. Namely, the certified Six Sigma Black Belt (CSSBB), Certified Six Sigma Green Belt (CSSGB), Certified Reliability Engineer (CRE), and Certified Quality Inspector (CQI). Using this guide in studying for any of these exams would be very useful, especially for the statistics parts of boks. Unlike other resources in the market, all these issues and solutions have been developed specifically to address the 2015 CQE knowledge body and help those studying for it, including taking into account the right depth of knowledge and necessary levels of cognition. None of this material has appeared in any previous resource or been shoehorned into mounting under BOK's subjects. NOTE: Exercise/test test questions such as those in this study guide cannot be taken into asq certification rooms. This book is primarily meant to help those who take the ASQ Certified Quality Engineer (CQE) exam and are best used in conjunction with The Certified Quality Engineer Handbook. Section 1 provides 380 practice questions organised by the seven parts of the 2015 Body of Knowledge (BOK). Section 2 gives the reader 205 additional practice questions from each of the seven parts, in a randomized order. For each question in both sections, detailed solutions are provided explaining why each answer is the right one and also which section of the BOK question corresponds to so that each additional study needed can focus on specific sections. A secondary audience are those who take exams for ASQ certifications whose BOKs have some crossover with CQE. Namely, the certified Six Sigma Black Belt (CSSBB), Certified Six Sigma Green Belt (CSSGB), Certified Reliability Engineer (CRE), and Certified Quality Inspector (CQI). Using this guide in studying for any of these exams would be very useful, especially for the statistics parts of BOKs. Unlike other resources in the market, all these issues and solutions have been developed specifically to address the 2015 CQE Body of Knowledge and help those studying for it, including taking into account the right depth of knowledge and necessary levels of cognition. None of the material has appeared in no previous resource or been shoehorned into assembly under BOK's topics. NOTE: Exercise/test test questions such as those in this study guide cannot be taken into asq certification rooms. When someone tells me they want to become a Certified Quality Engineer, one of the first questions I normally ask them is whether they have a plan to get certified. The answer is generally a short break, with perhaps a uh thrown in there, followed by a no. So I wanted to help you by sharing my own study plan that you can use too! When I created this study plan, I focused on creating a plan that was optimized for efficiency & effectiveness. These two words are super important: Efficiency – doing something fast, and efficiency – doing something RIGHT I wanted to create a study plan that would be the best use of my time (Effective) and that gets me certified (Effective). After publishing this page – I have since created a page full of free practice exams. Use these practice tests to identify gaps in your skills, and put together your own unique study plan based on your own personal strengths and weaknesses. I wanted to take some time and explain how the study plan was created including the main learning concepts used to create the plan that include: Starting with a SMART Goal To break down our SMART goal into microgoals using the CQE Body of Knowledge Using & Understanding Spaced Repetition to turn studies into a daily habit So we can talk about how you can tailor this generic plan to your own skills, & current knowledge. The SMART goal Almost everyone who comes to this site shares a common goal: to become a Certified Quality Engineer. It's almost a SMART goal, defined as: Specifically – Your goal should be focused on a specific area for improvement Measurable – your goal should include a measurable indicator of success attainable – Your goal should realistically be achieved Relevant – Your goal should result in a measurable difference for you Time-Bound – the goal includes a definition of when you expect the result to be achieved The goal of being Certified Quality Engineer is Specific & Measurable because you know what success looks like, and you know when you achieve it. Becoming a CQE is also attainable – no matter what your gut can tell you, you can do it. As for Relevance – If you're reading this, there's a very high probability that becoming a CQE is very relevant to you. The goal of becoming a CQE is not Time-Bound. So let's deal with it now. How long should it take to get certified?? We can easily make our target time bound by changing it to: become a CQE in 26 weeks. You may be wondering. How did I land in 26 weeks? Well, for starters, this is exactly half a year which makes the math easy to further break down all micro (Weekly & Daily) goals as part of the study plan. More importantly though, this time frame was picked for if you were to study for 1 hour a day for each weekday that would be 130 hours (1*5*26). 130 hours is about how much time I estimate it would take to adequately cover each subject on the exam! That's if I assume you start from scratch. And what are these topics exactly that you would need to learn?? Let's cover it next and then I'll show you how I broke all these topics down into micro-targets. The 2015 CQE Knowledge Body Study Plan is based on the 2015 CQE Knowledge Body (BOOK). If you're not already familiar, ASQ published a Body of Knowledge for each certification that defines exactly what you need to know to become a CQE. Not only that, they also publish the number of exam questions associated with each pillar. As we delve deeper into the study plan and discuss how much time is allocated to each topic you will notice that the plan is structured to adapt to the number of exam questions associated with each subject. So for those subjects who have more exam questions they have more study time associated with them. Not only that, but I've also gone so far as to break down every pillar of its individual subject to help you know where to focus on each topic. Here is the same table in a pie chart – as you can see statistics (Quantitative Methods & Tools) part of the exam is almost 25% of the exam! And the study plan reflects this! The Cognition level of each subject The next piece of information that I have used to structure the study plan is the cognition level associated with each degree subject. These cognition levels come from Bloom's Taxonomy and are a hierarchical model used to classify educational learning goals in levels of cognition. Essentially, cognition level defines the level of understanding that you should have for each topic. So for subjects that only require you to remember or understand these concepts, the plan sets aside less study time compared to subjects that require you to be able to apply, analyze or evaluate these substances. ASQ is also generous in defining these cognition levels within the body of knowledge (below). I used these cognition levels when putting together the study plan. So let's get to the actual study plan already! The study plan! Ok - here's a quick high level, week by week overview of the plan. As you can see, there are 4 phases to the plan with each phase being divided into 6 week steps. If you're wondering about the order of the topics, I'll get to it below. You'll also see that the plan includes a Flex Week – in case you get sick for a week, or go on vacation, or whatever. There is also a Total Review Week (Week 26), and then each phase also has a review week within. These Weeks are important because they give you a chance to review what you have learned through spaced repetition and combat forget the curve. Spaced Repetition and forgetting curve An important concept in Education, Memory & Learning that I used to create the study plan is the idea of The Forgetcurve & Spaced Repetition. These concepts are covered in detail in the Quality Training chapter, but I'll summarize it here. Shown below is what is called Ebbinghaus Forgetful Curve and shows how quickly you will forget something after learning it. Brain Scientists have long studied this phenomenon to improve the science behind learning. In that research, they have developed a learning technique that improves your long-term memory retention and reduce the total amount of time needed to learn a new topic. They call it Spaced Rehearsal. Spaced Repetition is the practice of strategically distanced out your study sessions over time and ensures that the material is committed to long memory. Watch this graph carefully (follow the dark orange line)! Research has shown that every time you review your material, your retention jumps up to 100% and the rate of forget slows down (the slope of the line). This is where the information is engaged in long-term memory! I say all that so you understand why I've included so much review time in the study plan. Statistics are first?? Why! People often ask why I made Statistics (Quantitative Methods & Tools) the first topic in the study plan. My mind always jumps to a quote from Mark Twain. If it is your job to eat a frog, it is best to do the first thing in the morning. And if it is your job to eat two frogs, it is best to eat the biggest first. Mark Twain. Statistics are the largest frog. Statistics are the topic that scares people the most and by putting it first you will find out very early on whether the certification process is for you or not. If you can learn Statistics, then you can learn anything in BOOK. You will also be the most motivated during this time period, and I want to take advantage of it. Finally, the statistics topics are fundamental to many of the other topics in the entire BOOK and it makes sense to go over them first from that perspective. Explaining the rest of the goofy study order In each of these remaining phases I wanted to pair subjects in a strategic way so that their total number of test questions was about the same. Phase 2 combines, for example, the Quality System & Continuous Improvement Questions for 43 test questions, then in Phase 3 Management & Leadership and Product & Process Design combined for 41 test questions, etc. The study plan was also structured to take into account serial learning. I came up with that term. . Series Learning. But essentially what I mean is that you should probably learn about & Process design BEFORE Product & Process Control or Risk Management because the concepts are based on each other. You have to learn them in comics. The same logic applies to the Quality System. Much of what you learn about iso standards for quality is a primary driving force for the concepts & approaches discussed within product & process design and product and process control sections. So it makes sense to go through this first. Daily Study Goals & Study Habits Now that we are comfortable with the overall study plan structure, we will go deeper. Each high level topic is then divided into a daily study goal. For example, below on the Statistics portion of the exam, divided into a daily subject for each of the 5 weeks within phase 1. During that time period, you should read, study and quiz on that particular topic. You will find the same breakdown for each subject on the exam. This is where you need to establish a daily study habit. You're going to have to be intentional about this. Successful people don't find time for the important things in their lives – they DO TIME. Set time aside each day to study, and then use the study plan to hold you accountable. This is one of the most important points in this whole conversation. I'll repeat myself here – you have to be intentional about making time to study. Adapting the Study Plan The entire study plan was created under the assumption that you have equal experience in all areas. However, it is likely that you have specific experience in one or more of the areas of BOK. For me it was Continuous Improvement but for you it could be the quality system or Product & Process Control, anything. That's why I give the worksheet away, so you can it change based on your experience. You can also compress this timeline if you absolutely must. Another way to compress this timeline is to remove the review weeks and to review the time in the existing study time for each topic – although I don't really recommend this. . . The other thing you can do to compress the timeline is to study on weekends, which are currently excluded from the plan. Conclusion Alright, let's finish this. Basically, you have acquired a 26-week study plan that I have optimized for efficiency & efficiency. This study plan begins by creating a SMART Goal that is to become a Certified Quality Engineer in 26 weeks. We then break down the smart goal into micro (weekly & daily) study goals. These weekly & daily goals are fully in line with the CQE Body of Knowledge. The study time assigned to each subject is adapted to its respective number of exam questions and the published cognitive level for that subject. And now all you need to study is to start studying! Study!