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By Danielle Smyth Updated February 25, 2022 While it may seem like a cardiopulmonary perfusionist is a very specific job role, these professionals do critical work in healthcare. During many medical procedures, especially open-heart and bypass surgeries, machines must provide a substitute for the patient's typical circulatory or respiratory systems. A cardiopulmonary perfusionist operates the machines that perform those essential functions. The expert educators at the Mayo Clinic College of Medicine and Science explain that cardiopulmonary perfusionists, who are also referred to as cardiovascular perfusionists, cardiac perfusionists or simply perfusionists, help keep people alive while working in one of the most exciting and stressful workplaces in the world: operating rooms. If you're interested in becoming a cardiopulmonary perfusionist, you have a challenging but fulfilling path in front of you. To become a cardiopulmonary perfusionist, you must go to college. The field of perfusionists is too narrow to major in while attending college, but you should get a degree in a related field. Any of the sciences work well, although biology or human sciences are best. In addition, courses in engineering and mathematics can also be beneficial. While you don't need to attend medical school to be a cardiopulmonary perfusionist, you need to continue your education beyond college. Your options include pursuing a master's degree or completing a graduate certification program. Both options typically take about two years, though a master's program can sometimes take three. Thoroughly research both paths to decide which is best for you. Even after obtaining a bachelor's and finishing an advanced degree, you're still not done with school. Most people still need to complete their education by attending an official perfusionist school. The writers at Perfusion note that there are only 18 perfusionist schools in the United States, so you may have to be willing to move, at least temporarily, in order to attend one of these schools. Throughout this stage and while you're in a graduate program, experts strongly recommend you find an internship or work in the field if possible. This recommendation is because you must have successfully participated in at least 75 perfusions to get your full certification. Speaking of certification, the American Board of Cardiovascular Perfusion (ABCP) gives the Perfusion Basic Science Examination twice a year, and you need to pass it to finish your certification. It consists of 220 multiple-choice questions, not about the perfusion procedure itself but about the science and technology behind it. In addition to the Perfusion Basic Science Examination, you also have to take the Clinical Applications in Perfusion Examination given by the ABCP. You can take the tests around the same time or finish one in the fall and one in the spring. You have to be able to pass both exams in the same year, though, so once you've done one of the tests, you're on a timer for the other one. Once you've completed your education and performed the required minimum of 75 perfusions, you can finalize the steps for your full certification, which allows you to work as a cardiopulmonary perfusionist. You have to work in the field and work consistently to maintain your certification as a cardiopulmonary perfusionist. The ABCP stipulates that professionals conduct at least 40 clinical activities annually. In addition, to maintain certification, you must complete 45 hours of approved continuing education every three years. Qualifying cardiopulmonary perfusionist continuing education is offered in many forms, as the American Board of Cardiovascular Perfusion experts describe on its website. These standards exist to ensure that the people performing this vital job are up to date on the latest technologies and are continually honing their skills. In computer-based training (CBT) also called computer-assisted instruction (CAI), certification refers to both the program and the process a student must go through to obtain certification in the studied area. Certification also includes testing and assessment that must be met by the learner with a minimum acceptable score. Uncertain economic times have many IT employees nervous about how to stay relevant and valued in their companies -- or at future employers if they're forced to leave. One Chicago-area IT manager and infrastructure project leader, who asked that his name not be used, wonders whether it's time to earn a certification that might get him premium pay or at least an edge over other applicants for a new job. "Do I try to enhance my management skills, or do I dig deeper into the technology?" he asks. What's more, on his own tight budget, the manager is concerned that the cost of a certification will outweigh the benefits. "[Certification] really doesn't strike me as being beneficial," he says. "A lot of people I've seen with certifications frankly don't know what they're doing." His dilemma is common, and Computerworld's 2008 Salary Survey figures seem to back up his suspicions. Nearly half (49%) of the respondents reported having some type of computer certification, yet 47% said their certifications haven't helped them land a job, earn a promotion or gain a pay raise. "It's no longer about certification, except in deeply technical areas like security and networking," explains David Foote, president of Foote Partners LLC, which reports that the average market value of a certification declined 3.5% from July 2007 to July 2008. "Employers want skills any way they can get them, in the right combination, and not simply tech skills, but hard and soft skills." CIOs and senior managers are now looking for certification programs "that are going to help classify and categorize the value of people for things that matter to the business at hand," says Diane Morello, an analyst at Gartner Inc. "So we're going to see more education and training in financial regulations for people in the financial industry," for example, she says. IT leaders are also looking at larger-scale educational programs or management disciplines that will yield longer-term value. "Six Sigma, process design and project management discipline issues are going to be where a lot of CIOs and IT leaders are actually focusing," says Morello. However, there still are a few technical areas in which a certification could yield premium pay, especially network security, project management and systems architecture, according to Foote. Depending on corporate compensation policies, IT skills premiums are typically incorporated into base salary or paid out as a cash bonus that can be adjusted annually, he says. The CISP certification from the International Information Systems Security Certification Consortium Inc. continues to be the gold standard, Foote adds. The (ISC)2 now offers three areas of specialization within its security certification -- architecture, engineering and management. IT professionals with systems architecture certifications are also seeing increases in pay or bonuses. "Companies are realizing that they need, at least in the short term, many different kinds of architects -- from the extremely technical to the extremely business-oriented," says Foote, whose firm tracks 20 types of IT architects. "They're the people who really understand what the business needs and how we can use technology to advance or enable that need. Those people are extremely valuable." Premium pay for a Citrix integration architect certification, for example, reached 11% of base pay in the second quarter of 2008. If you're still uncertain about the right certification for your career, "follow the money," suggests David Van De Voort, an IT workforce specialist at Mercer in Chicago. "Find out where your employer is spending money," he says. "Know the business strategy. Know the technology strategy." Collett is a Computerworld contributing writer. Contact her at stcollett@aol.com.This version of this article originally appeared in Computerworld's print edition. Next: 6. Hit the books to earn a graduate degree. Copyright © 2008 IDG Communications, Inc. How to Word a Volunteer Appreciation... How to Create a Certificate of... How to Get Stock Certificates for... How to Write an Employee Training... How to Make a Stock Certificate How to Make a Training Agenda Ideas for Longevity Awards What Are LLC Membership Certificates? 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