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## Programing merit badge book

January, 2017 Safety. Do the following: Show your current counselor, the latest Cyber Chip. Discuss first aid and prevention for potential injuries, such as eye exercises and repetitive stress injuries, which can occur during programming activities. Getting a Cyber Chip can help you learn how to stay safe while you're online and use the latest social networks or electronic gadgets. Topics include mobile phone use, SMS, blogging, gaming, cyberbullying, and identity theft. Find out more about Cyber Chip in [www.scouting.org/cyberchip](http://www.scouting.org/cyberchip). History. Do the following: Provide a brief history of programming, including at least three milestones related to programming progress or development. Discuss with your counselor the history of programming and the evolution of programming languages. General knowledge. Do the following: Create a list of 10 popular programming languages used today and explain which industries or industries are primarily used and why. Describe the three different programmed devices you rely on every day. Intellectual property. Do the following: Describe the four types of intellectual property used to protect computer programs. Explain the difference between the license and the owner's software. Explain the difference between freeware, open source, and commercial software, and why it's important to respect each other's terms of use. Project. Do the following: With your counselor's approval, select a sample program. Change the code or add a function or subroutine to it. Debug and show the modified program to your counselor. With the approval of your counselor, choose a second programming language and development environment, different from the one used for 5a requirements and in different industries from 5a. Then write, debug, and demonstrate a program that works to your counselor, using that language and environment. With the approval of your counselor, choose a third programming language and development environment, different from the one used for 5a and 5b requirements and in different industries from 5a or 5b. Then write, debug, and demonstrate a program that works to your counselor, using that language and environment. Explain how the programs you write for the 5a, 5b, and 5c process input requirements, how they make decisions based on those inputs, and how they deliver output based on decision making. The Programming merit badge website, has a number of sample programs that you can use for 5a requirements. It's a good idea to seek the guidance of your accomplishment badge counselor. Career. Find out about three career opportunities that require knowledge in programming. Select one and find out the education, training, and experience required. Discuss this with your counselor and explain why this career might be of interest to you. You. Comment Worksheet: Oct 15, 2013 – Scott Beanlm is a programmer by trade and I think it's great that this badge exists. The requirements for achieving this are impressive. I salute everyone who achieved this badge of achievement. I programmed for 25+ years so it's great to see this promoted so positively. Good luck to all. Apr 27, 2016 - LJ! If you look at the lighter 1s and 0s on the badge itself, in binary spells out the BSA. Contests – Ask Questions – Add Content This site is not officially associated with The Boy Scouts of America Follow Me, Scouts Home » Merit Badge Requirements » The programming benefit badge Getting a Programming benefit badge will take you behind the scenes to see complex code that makes digital devices useful and fun. Without the program, today's high-tech gadgets would be little more than an empty shell. But given the clear instructions, digital devices can do extraordinary things and perform operations that would seem like magic to people in the past. By the time you qualify for the Programming benefit badge, you will be able to work a little of the magic itself. And you may find yourself joining the legions of young programmers who created so much innovative software. Whatever his needs, someone somewhere has written a program to answer it. You can be that person. Happy programming! GET STARTED PROGRAMMING Get help with Requirement 5! Choose a programming language for sample programs, resources, tips, videos, and more. Use the drop-down menu to filter languages by industry. MERIT BADGE REQUIREMENTS Purchase a benefit badge pamphlet Download the printable Terms workbook 1. Safety. Do the following: a. Show your current counselor, the latest Cyber Chip. B. Discuss first aid and prevention for potential injuries, such as eye exercises and recurrent stress injuries, which can occur during programming activities. 2. History. Do the following: a. Discuss with your counselor the history of programming and programming languages, and discuss how programming languages have evolved over time to become easier to use while adding additional capabilities. B. Discuss with your counselor the history of programming and the evolution of programming languages. 3. General knowledge. Do the following: a. Make a list of 10 popular programming languages used today and explain which industries or industries are primarily used in and why. B. Describe the three different programmed devices you rely on every day. 4. Intellectual property. Do the following: a. Describe the four types of intellectual property used to protect computer programs. B. differences between the license and the owner's software. c. Explain the difference between freeware, open source, and commercial software, and why it is important to respect the terms of use Every. 5. Project. Do the following: a. With your counselor's approval, select a sample program. Change the code or add a function or subroutine to it. Debug and show the modified program to your counselor. B. With the approval of your counselor, choose a second programming language and development environment, different from the one used for 5a requirements and in different industries of 5a. Then write, debug, and demonstrate a program that works to your counselor, using that language and environment. c. With the approval of your counselor, select a third programming language and development environment, different from the one used for requirements 5a and 5b and in different industries from 5a or 5b. Then write, debug, and demonstrate a program that works to your counselor, using that language and environment. d. Explain how the programs you write for process input requirements 5a, 5b, and 5c, how they make decisions based on those inputs, and how they deliver output based on decision making. 6. Career. Find out about three career opportunities that require knowledge in programming. Choose one and find out the education, training, and experience you need. Discuss this with your counselor and explain why this career might be of interest to you. EARN THE CYBER CHIP Earning the Cyber Chip can help you learn how to stay safe while you're online and use the latest social networks or electronic gadgets. Topics include mobile phone use, SMS, blogging, gaming, cyberbullying, and identity theft. Find out more about Cyber Chip in [www.scouting.org/cyberchip](http://www.scouting.org/cyberchip). JAMBOREE RESOURCES Videos and activities used during the inaugural launch of the Programming Merit Badge at the 2013 National Scout Jamboree. • Robotic arm activity videos • Factory automation activity videos • Embedded programming activity videos From Wikibooks, books open to the open world &lt; Scouts | BSA Jump to Jump navigation in search of the Requirements for this achievement badge copyrighted by the Boy Scouts of America. They are reproduced in part here under fair use as a resource for Scouts and Scouts to use in obtaining and teaching achievement badges. The requirements published by the Boy Scouts of America should always be used during the list here. When in doubt about the accuracy of the requirements, consult your Achievement Badge Counselor. Reading this page does not meet any requirements for any achievement badges. In accordance with National regulations, the only person who can sign the requirements is the Achievement Badge Counselor, who is registered and authorized by the local Council. To get a list of registered Achievement Badge Counselors, or to start an Achievement Badge, please contact ScoutMaster or Your Board Service Center. Safety. Do the following: A. Show your counselor your current and up-to-date Cyber Chip. B. Discuss first aid and prevention for the types of injuries or illnesses occurs during programming activities, including recurrent stress injuries and eye exercises. Requirement 2[edit] History. Do the following: A. Provide a brief history of programming, including at least three milestones related to programming progress or development. B. Explain the evolution of programming methods and how they have improved over time. Requirements 3[edit] General knowledge. Do the following: A. Create a list of 10 popular programming languages used today and explain which industries or industries are primarily used in and why. B. Describe the three different programmed devices you rely on every day. Requirements 4[edit] Intellectual property. Do the following: A. Explain how software patents and copyrights protect programmers. B. Explains the difference between the license and the owner's software. C. Explain the difference between freeware, open source, and commercial software, and why it is important to respect each other's terms of use. Requirements 5[edit] Project. Do the following: A. With your counselor's approval, select a sample program. Then, at a minimum, change the code or add a function or subprogram to it. Debug and show the modified program to your counselor. B. With the approval of your counselor, choose a second programming language and development environment, different from the one used for 5a requirements and in different industries of 5a. Then write, debug, and demonstrate a program that works to your counselor, using that language and environment. C. With the approval of your counselor, choose a third programming language and development environment, different from the one used for requirements 5a and 5b and in industries different from 5a or 5b. Then write, debug, and demonstrate a program that works to your counselor, using that language and environment. D. Describes how the programs you write for the 5a, 5b, and 5c process input requirements, how they make decisions based on those inputs, and how they deliver output based on decision making. Requirements 6[edit] Career. Find out about three career opportunities in programming. Choose one and find out the education, training, and experience you need. Discuss this with your counselor and explain why this career might be of interest to you. External Link[edit] Link[edit]

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