

REQUIREMENT 1:



Electronics Merit Badge Workbook

SCOUTMASTER BUCKY

Describe the safety precautions you must exercise when using, building, altering, or

Scouts participating in a Scoutmaster Bucky merit badge opportunity, whether online or in person, should consider using the Electronics merit badge pamphlet for discovery and knowledge, along with the class preparation pages for clarifications, insights, and expectations.

https://scoutmasterbucky.com/merit-badges/electronics/electronics-pamphlet.pdf

https://scoutmasterbucky.com/merit-badges/electronics/electronics-cpp.pdf

	repairing electronic devices.		3,	3,
Notes:				
DECLUDEMENT 20.	Draw a simple selected discrept It reject show resistant as	nacitore	and tran	oiotoro
REQUIREMENT 2a:	Draw a simple schematic diagram. It must show resistors, ca or integrated circuits. Use the correct symbols. Label all pa	rts.	and tran	ISISIOIS
REQUIREMENT 2b:	or integrated circuits. Use the correct symbols. Label all particle the purpose of each part.	rts.		ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISTOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISTOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.		ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISIOIS
	or integrated circuits. Use the correct symbols. Label all pa	rts.	and trai	ISISIOIS







REQUIREMENT 3a: Show the right way to solder and desolder.

Consider using the <u>Electronics Merit Badge Pamphlet</u> for preparation information This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

DL FILLANLD:		
REQUIREMENT 3b:	Show how to avoid heat damage to electronic components.	
Consider us	sing the Electronics Merit Badge Pamphlet for preparation information	
This requirement must be reviewed with your merit badge counselor.		
	BE PREPARED!	
REQUIREMENT 3c:	Tell about the function of a printed circuit board.	
Notes:		
REQUIREMENT 3c:	Tell what precautions should be observed when soldering printed circuit boards.	
Notes:		







REQUIREMENT 4a1:	Discuss how to use electronics for a control purpose with your counselor.
Notes:	
140100.	
DECLUDEMENT 4c2:	Discuss the basis principles of digital legis with your souppeler
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
REQUIREMENT 4a2: Notes:	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.
	Discuss the basic principles of digital logic with your counselor.











SCOUTMASTER BUCKY

DO ONE OF THE FOLLOWING (4C1, 4C2, or 4C3) FOR REQUIREMENT 4C

CHOOSE ONE OF THE FOLLOWING THREE PROJECTS: 1. a control device 2. a digital **REQUIREMENT 4c:** circuit 3. an analog circuit. For your project, find or create a schematic diagram. To the best of your ability, explain to your counselor how the circuit you built operates. Don't forget to bring any work you have done in preparation to share with your merit badge counselor Consider using the Electronics Merit Badge Pamphlet for preparation information This requirement must be reviewed with your merit badge counselor. **BE PREPARED!** Notes: **REQUIREMENT 5a:** Show how to solve a simple problem involving current, voltage, and resistance using Ohm's law. Don't forget to bring any work you have done in preparation to share with your merit badge counselor Consider using the Electronics Merit Badge Pamphlet for preparation information This requirement must be reviewed with your merit badge counselor. **BE PREPARED!** Notes:





SCOUTMASTER BUCKY

REQUIREMENT 5b:	Tell about the need for and the use of test equipment in electronics. Name three types of test equipment. Tell how they operate.
TEST EQUIPMENT #1:	
Name:	
How it operates:	
TEST EQUIPMENT #2:	
Name:	
How it operates:	
TEST EQUIPMENT #3:	
Name:	
How it operates:	







REQUIREMENT 5c: Demonstrate to your counselor how to read the colored bands of a resistor to determine its resistance value.

bly
oly
oly





SCOUTMASTER BUCKY

REQUIREMENT 6:	Identify three career opportunities that would use skills and knowledge in Electronics.
Career Opportunity #1:	
Career Opportunity #2:	
Career Opportunity #3:	
REQUIREMENT 6:	Pick one and research the training, education, certification requirements, experience, and expenses associated with entering the field.
Selected Career Opportu	unity:
Training Requirements:	
Education Requirements	
Certification Requiremen	nts:
Experience Requirement	





SGOUTMASTER BUCKY

Expenses associated with:	
REQUIREMENT 6:	Research the prospects for employment, starting salary, advancement opportunities and career goals associated with this career.
Prospects for Employme	ent:
Starting Salary:	
Advancement Opportuni	ties:
Career Goals:	
REQUIREMENT 6:	Discuss what you learned with your counselor and whether you might be interested in this career.
Notes:	