

Bike Kitchen Mechanic Quiz

version 2009.8.14

Name: _____

Date: _____

Administering Mechanic: _____

Score: _____

Introduction: Presumably, if you are taking this quiz, you are interested in becoming a bike mechanic at the Bike Kitchen. This quiz is a simple and fun evaluation of your familiarity with bike parts, bike tools, Bike Kitchen policies, performing repairs, and teaching people how to repair bikes. It is not meant to be comprehensive. Prior to taking this quiz, you should be familiar with the Bike Kitchen handbook. Based on your performance, the administering mechanic can recommend the next steps you should take.

Section 1: Bike Parts (11 Points)

Label the following pictures:



Section 2: Bike Tools (15 Points)

Label the following pictures:































Section 3: Bike Kitchen Policies (14 Points)

How long must one consistently volunteer at the Bike Kitchen to get staff benefits? _____

List three Bike Kitchen staff benefits:

1. _____

2. _____

3. _____

How many hours must an individual volunteer to earn a Bike Kitchen membership? _____

Name one prerequisite to earning or purchasing Digging Rights: _____

List three things that the Greeter does during open hours:

1. _____

2. _____

3. _____

List three pieces of information that individuals must write on their tags if they leave their projects at the Bike Kitchen:

1. _____

2. _____

3. _____

A patron wishes to swap one pair of pedals for a different pair. Is this acceptable? **YES** **NO** **MAYBE**

A patron can not pay the day-use fee and does not have a membership, but wishes to use the shop for some quick repairs. Is this acceptable? **YES** **NO**

Section 4: Performing Repairs (20 Points)

The administering mechanic will stage three repairs for you to perform: a hub adjustment, a brake adjustment, and a derailleur adjustment. The administering mechanic will identify two of these repairs to be performed as part of this section, and one to be performed in the next section. Each of the two repairs that you perform in this section are worth 10 points.

Section 4 Score: _____

Section 5: Teaching People How To Repair Bikes (20 Points)

Knowing your way around bike parts, bike tools, and Bike Kitchen policies are important aspects of being a Bike Kitchen mechanic. However, much of what we do relies on mechanics' teaching skills, patience, friendliness, and enthusiasm. To demonstrate these abilities, teach the administering mechanic the remaining repair from the previous section. This section is worth 20 points.

Section 5 Score: _____

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- Consider administering the test orally instead of having the candidate mechanic fill in the blanks. Note your preference on the anonymous score card for future revisions of the test.
- Each blank in the first three sections is worth 1 point. This makes 40 the perfect score on the first three sections.
- As you review the responses to the first three sections, discuss any vague or incomplete entries with the candidate mechanic.
- For section 4 and section 5, you will have to stage three repairs for the candidate mechanic to perform: a hub adjustment, a brake adjustment, and a derailleur adjustment. Here are some pointers:
 - Start by choosing a suitable bike. Consider using the candidate's own bike, or your own bike. Avoid bikes that have frayed cables or other cans of worms that may be difficult to un-adjust then adjust. Also, don't un-adjust anything that you are not 100% certain you can restore. If you need help, ask.
 - Ensure that the candidate mechanic does not watch you stage the repairs. No peeking!
 - If the front hub is loose already, great! If not, remove the front wheel, unlock and loosen the front hub slightly, then put the wheel back on the bike.
 - Choose a brake. If the brake is in need of adjustment, great! Otherwise, put the brake pads out of adjustment, loosen the brake cable, and fuss with any centering/spring tension adjustment.
 - Choose a derailleur. Fuss with the limit screws and the cable tension.
 - Choose two of the three staged repairs that the candidate mechanic will perform independently, and one that will be performed as part of section 5.
 - Instruct the candidate mechanic to perform section 4, then alert you.
 - When the candidate mechanic alerts you, start by evaluating the repairs and score accordingly. Be sure to discuss any docked points and to address the problems before returning the bike to service.
- Begin section 5 by instructing the candidate mechanic to teach you how to perform the remaining repair. When evaluating a mechanic's teaching abilities, consider that the following criteria:
 - Mechanic may assist and demonstrate the repair, but the patron should be the primary individual operating the wrenches.
 - Mechanic should clearly describe the diagnosis, the repair procedure, and the tools involved.
- After grading the exam, enter the candidate mechanic's score and any comments in Freehub. Also update the anonymous score card in the test kit.