

Basic Collision Repair

Lab Exam Rating Sheet

Name: _____

<u>Items Evaluated</u>	<u>Possible Points</u>	<u>Actual Points</u>
Safety <u>Safety Glasses</u> <u>Dust Mask</u> <u>Hearing Protection</u> <u>Clothing</u> <u>Gloves</u>	20	_____
Proper use of tools Hammer Dolly File Grinder DA	20	_____
Metal Straightening Time spent Quality of work Stretched metal	20	_____
Polyester filler – Mixing Application Sanding	20	_____
Overall appearance Completion of repair Final Appearance Sand scratches evident Pin holes Uneven surface/undercut	20	_____
<u>Total:</u>	100	_____

1. Soft skills are:

- A) The ability to work with your hands
- B) Personal qualities, habits, attitudes, and social graces that make up a person
- C) Hereditary
- D) The technical skills you learned in your school shop

2. Most companies hire you right on the spot if they like you.

- A) True
- B) False

3. In an interview, it's best to be unprepared and "wing it" because the employer will see your true self.

- A) True
- B) False

4. In a first interview, an inappropriate question for you to ask is:

- A) What technical skills are important for this position?
- B) What does this shop do to ensure a safe workplace?
- C) How much money will I make, and how much time off will I have?
- D) Will I receive on-the-job training?

5. Federal law regulates the types of questions employers can ask you during an interview.

- A) True
- B) False

6. Thank-you notes are important after an interview because they:

- A) Show you are interested in the job
- B) May help differentiate you from the next person
- C) Show you care that someone took the time to interview you
- D) All of the above

7. The most important thing you can do in an interview is:

- A) Act cocky
- B) Talk a lot

- C) Listen
- D) Have a serious face

Which items should you take to an interview?

- A) Resume
- B) Pen and paper
- C) S/P2 certificate
- D) All of the above

9. Which of the following should you NOT wear to an interview?

- A) Clean shoes
- B) Your lucky stained t-shirt
- C) Collared shirt
- D) Nice pants

10. Take your cell phone and answer phone calls during an interview so the potential employer knows you are important.

- A) True
- B) False

CRTN 125

Intermediate Automotive Refinishing

Lab Exam

Spring 2018

Name:

Please write legibly. Each station is worth 20 points. If you need more room, write on the back of this page. Stations are timed at 10 minutes each.

Station 1. Using the materials supplied, please mask the window with your name on it. You will be graded on use of materials, neatness, exposed edges, tape on painted surfaces.

Station 2. Please record the following information using the vehicle and color books provided:

- a. Production date – month _____ year _____
- b. Paint Code _____
- c. Location of paint code _____
- d. Paint Mfg. color name _____
- e. Paint Mfg. part number _____

Station 3. Using the Mil gauge and panels provided, record the thickness of the paint finish inside the taped off square. Also, indicate if it is within limits to be refinished (acceptable) or needs to be stripped (not acceptable).

	<u>Mils</u>	<u>Acceptable or Not Acceptable</u>
a.	_____	_____
b.	_____	_____
c.	_____	_____
d.	_____	_____
e.	_____	_____

Station 4. Using the examples of paint problems provided, fill in the requested information:

Paint Problem

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

Cause

- a. Wrong thinner or reducer, excessive film build, insufficient air flow in booth
- b. Applying additional coats without proper flash times, gun too close
- c. Under reduced paint, lack of flow, improper air pressure, wrong reducer
- d. Spraying over incompatible materials, recoating uncured finish, exceeding flash times
- e. Improper cleaning of surfaces, contaminated air lines

Prevention

- a. Apply recommended thickness, allow primer to dry properly(do not fan), do not pile on coats, allow proper flash time
- b. Do not pile on coats, use proper gun pressure and technique, use correct reducer
- c. Mix correctly, use correct reducers, allow proper dry times, avoid extreme temperatures
- d. Do not exceed recoat times, use waterborne sealer, avoid excessive coats of finish
- e. Clean surfaces thoroughly, use separator on air lines

Remedy

- a. Sand affected areas, reprime and block, refinish properly
- b. Sand and buff or if extreme, sand and refinish with basecoat/clearcoat
- c. Sand and refinish or color sand and buff
- d. Remove affected paint and refinish
- e. Use paint additive, sand out/clean/refinish if severe, apply mist coats

Station 5. You are going to mix a clearcoat that has a reduction ratio of 4:1:1. You need a total of 18 ounces. Using the provided mixing cup, fill in the information requested:

a. What number do you fill to with clear, activator and reducer to give you a total of 18oz?

b. How many ounces of clear will you pour? _____

c. How many ounces of activator will you pour? _____

d. How many ounces of reducer will you pour? _____

e. 18oz equals how many pints? Circle one only.

1 pint

1 pint 2oz

2 pints

1 pint 8oz

2 pints 2oz

1 pint 4oz

3 pints

1 pint 10oz

CRTN 201

Plastic Repair Quiz

Name: _____

1. Tech A says that heating and reshaping can be done after plastic repair adhesive repairs have been completed.
Tech B says that all thermoset plastic can be heated and reshaped.
Who is correct?

 - A. A only
 - B. B only
 - C. Both A and B
 - D. Neither A nor B

2. Tech A says that ISO codes are helpful to identify the type of plastic, but their use may not be consistent.
Tech B says that ISO codes may show the type of plastic blend that the part is made from.
Who is correct?

 - A. A only
 - B. B only
 - C. Both A and B
 - D. Neither A nor B

3. Tech A says that leveling the plungers on a dual cartridge should always be done before the static mixer is attached.
Tech B says that it is acceptable to intermix different product makers plastic repair adhesive and adhesion promoters.
Who is correct?

 - A. A only
 - B. B only
 - C. Both A and B
 - D. Neither A nor B

4. Tech A says that a solvent based cleaner is used to clean sanding dust from the repair area before applying any plastic repair adhesive.
Tech B says that the longer the plastic repair adhesive is allowed to cure, the better the bond with the plastic.
Who is correct?
- A. A only
 - B. B only
 - C. Both A and B
 - D. Neither A nor B
5. After sanding the filler during a one sided SMC fender repair, the repair area should be:
- A. Cleaned with a vacuum
 - B. Cleaned with a solvent based cleaner
 - C. Washed with soap and water
 - D. Coated with an adhesion promoter
6. An SMC deck lid has exposed fibers in the damaged area.
Tech A says that masking tape may be needed to cover the damage during the initial cleaning process.
Tech B says that the solvent may wick into SMC fibers.
Who is correct?
- A. A only
 - B. B only
 - C. Both A and B
 - D. Neither A nor B
7. When welding plastic, the welding rod must be compatible with the base material in order for the strength, hardness, and flexibility of the repair to be the same as the part.
- A. True
 - B. False
8. ____ uses a tool with an electric heating element to produce hot air (450-650 degrees) that blows through a nozzle and onto the plastic.
- A. Ultrasonic welding
 - B. Melt-flow plastic welding
 - C. Hot-air plastic welding
 - D. Drill welding

9. All plastics can be welded.

- A. True
- B. False

10. The term Most Likely used to describe surface damage that does not penetrate or fracture the back of the panel is:

- A. Cosmetic damage
- B. Single sided damage
- C. Exterior damage
- D. Structural damage

CRTN 102 Quiz

Indicate whether the statement is true or false.

- ___ 1. A paper filter that fits over your nose and mouth to block small airborne particles is called a mist respirator.
 - a. True
 - b. False

- ___ 2. Asphyxiation results when electricity passes through a person's body.
 - a. True
 - b. False

- ___ 3. To check for air leaks, a respirator fit test should be done prior to using the respirator.
 - a. True
 - b. False

- ___ 4. Ignitability means the material or waste fails the ignitability test if it is a liquid with a flash point above 140°F or a solid that can spontaneously ignite.
 - a. True
 - b. False

Indicate the answer choice that best completes the statement or answers the question.

ASE-Style Multiple Choice

- ___ 5. ___ result(s) when excess current causes wiring to overheat, melt, and burn.
 - a. Reactivity
 - b. Electrical fires
 - c. Toxicity
 - d. Spontaneous combustion

- ___ 6. ___ contains cancer-causing agents.
 - a. Vapor
 - b. Spray mist
 - c. Asbestos dust
 - d. Carbon monoxide

- ___ 7. All of the following represent the type of extinguisher that should be used in a class A fire EXCEPT:
 - a. purple K dry chemical
 - b. water
 - c. foam
 - d. multipurpose dry chemical

- ___ 8. All of the following represent the type of extinguisher used in a class C fire EXCEPT:
 - a. carbon dioxide
 - b. foam
 - c. standard dry chemical
 - d. multipurpose dry chemical

- ___ 9. The term MOST-Likely used to refer to materials that leach one or more heavy metals in concentrations greater than 100 times primary drinking water standard concentrations is:
 - a. ignitability
 - b. corrosiveness
 - c. reactivity
 - d. toxicity

Enter the appropriate word(s) to complete the statement.

- 10. _____ is an invisible, odorless, but deadly gas!

Name: _____ Class: _____ Date: _____

CRTN 102 Quiz

Answer Key

1. False
2. False
3. True
4. False
5. b
6. c
7. a
8. b
9. d
10. Carbon monoxide
CO



Name: _____ Class: _____ Date: _____ ID: A

CRIN 102 Mid Term Exam Fall 2018

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. A flaming fuse box should be sprayed with what type of fire extinguisher?
 - A. Pressurized water
 - B. Foam
 - C. Dry chemical
 - D. Soda-acid

- _____ 2. What kind of gloves should you wear when mixing paint?
 - A. Leather
 - B. Neoprene
 - C. Cotton
 - D. Paper

- _____ 3. Grinding and cutting requires which of the following safety equipment?
 - A. Face shield
 - B. Leather gloves
 - C. Dust mask
 - D. All of the above.

- _____ 4. In a first interview, an inappropriate question for you to ask is: _____
 - A. what technical skills are important to this position
 - B. what does this shop do to ensure a safe workplace
 - C. how much money will I make and how much time off will I have
 - D. will I receive on the job training

Multiple Choice: 1 of 5

Total questions on test: 50

New... Edit... Delete

Instructions for Capstone Experience

CRTN230 Collision Estimating & Repair

1. Groups will be assigned by instructor
2. All work will be graded as a group but, requires participation of everyone in group. One person can bring down the grade for the group.
3. Each group will prepare a handwritten estimate using the guides provided.
 - a. You may NOT use estimating software or obtain outside help (i.e. boss, relatives, friends) to assist in the preparation of the estimate.
 - b. Estimate must be complete and legible.
4. You must indicate replacement cost of the vehicle. You may research current dealer prices, Craigslist, E-bay, etc. You must provide at least 3 different sources of where you obtained prices and availability. Please also include current retail price per NADA price guide. All pricing and availability MUST be local.
5. Is the vehicle totaled? At what price is the vehicle considered a total loss using a threshold of 75%?
6. Are LKQ parts available to return the vehicle to pre-accident condition? What is the cost difference to repair vehicle with LKQ parts vs. new, OEM parts. Provide supplier name, phone and location as well as price and condition of used parts. NO online vendors, i.e. Rock Auto, eBay, Craigslist, etc.
7. Each group will list the following in order to complete the repair:
 - a. Special tools and equipment needed.
 - b. Training, certification and experience needed by the technician.
 - c. Types of supplies and paint. Explain why you chose the type you listed.
 - d. Safety and environmental considerations.

These can be put in list form. You will explain your decisions in the Oral presentation.
 - e. Using the Alldata Collision and the I-Car website, provide cautions, instructions, and any other important information needed to complete a safe, reliable repair.
8. Estimate info – Labor rates for both repair/refinish labor is \$45.00 per hour. Refinish materials cost is \$24.00 per refinish hour. No sales tax. Use attached sheet for further information.
9. Each group will prepare a typed repair procedure according to the attached information sheet. Report will be at least 2-3 pages, no double spacing, font size 12.
10. Each group will complete an oral presentation to the class at the end of the semester. You may use notes which, will be turned in as part of your project.

11. Rubrics for the four portions of the Capstone are attached. It will cover the following:

- a. Written Report – worth a max. 20 pts.**
- b. Oral Presentation – worth a max. 28 pts.**
- c. Estimate – worth a max. 20pts.**
- d. Information from items 4, 5, 6, & 7 – worth a max. 12pts.**

Grading will be:

80 – 71pts = A

70 – 61pts = B

60 – 51pts = C

50 – 41pts = D

40 – 31pts = F

I will be available for questions and help during posted office hours. You can also e-mail questions as needed.

***Due date: April 25, 2017**

***Presentations: May 2, 2017 10am**

***subject to change**