

## Collision Repair Technology

**I. Repair depressed area(s) on a steel panel with plastic body filler to related tasks in the National Automotive Technicians Foundation (NATEF) Collision Repair/Refinishing Non-Structural Analysis and Damage Repair Technical Standards (ASE B3 Test)**

Tasks Instructions:

Each number to the right refers to a single student/candidate (1-10). Place a check (✓) in the respective column for the appropriate student/candidate number (1-10) if the skills listed below are observed as stated. Leave blank if not observed. Student/candidate will only get credit for the skills they have demonstrated.

	1	2	3	4	5	6	7	8	9	10
Clean contaminants from a damaged panel										
Locate surface irregularities on a damaged panel										
Remove finish from the damaged area(s) as necessary										
Apply hammer and dolly techniques to repair damage										
Mix and apply plastic body filler on a steel panel										
Rough sand cured body filler to contour										
Finish sand										
<i>Safety and infection control are adhered to during all aspects of this task.</i>										
<i>The student completed task within the time limited.</i>										
<b>Points earned</b>										
<b>Total possible points (9)</b>										

**II. Repair depressed area using shrinking techniques on a steel panel to related tasks in the National Automotive Technicians Foundation (NATEF) Collision Repair/Refinishing Non-structural Analysis and Damage Repair Technical Standards (ASE B3 Test)**

Tasks Instructions:





<i>Safety and infection control are adhered to during all aspects of this task.</i>											
<i>The student completed task within the time limited.</i>											
<b>Points earned</b>											
<b>Total possible points (8)</b>											

**VI. Complete backside reinforced cosmetic surface repair on a plastic vehicle part. Mix and apply appropriate material corresponding with the related tasks in the National Automotive Technicians Foundation (NATEF) Repair/Refinishing Non-Structural Analysis and Damage Analysis (ASE B3 Test). A 20-point scale is used for each segment. Participants will be expected to successfully complete each segment. Participants should have some basic knowledge in chemistry**

Tasks Instructions:

	1	2	3	4	5	6	7	8	9	10
Demonstrate an understanding of the importance to clean before making any repair										
Damage preparation before adhesive work										
Demonstrate an understanding of appropriate abrasive grade sequence for reinforcing plastic repair. (Typically 50 and 80)										
Apply a light coating of adhesion promoter and allow to dry adequately										
Demonstrate the ability to open, load, and equalize the cartridge, attach the mixing nozzle, and discard the first pump of material										
Demonstrate proper spreading techniques: Apply a thin, tight coat of material, then build a thin layer of adhesive followed by reinforcing mesh and an additional layer of adhesive										
<i>Safety and infection control are adhered to during all aspects of this task.</i>										
<i>The student completed task within the time limited.</i>										
<b>Points earned</b>										
<b>Total possible points (8)</b>										

**VII. Complete a front-side cosmetic surface repair on a plastic vehicle part. Mix and apply appropriate material corresponding with the related tasks in the National Automotive Technicians Foundation (NATEF) and the ASE Collision Repair/Refinishing Non-structural Analysis and Damage (B3) Certification Test. A 20-point scale is used for each segment. Participants will be expected to successfully complete each segment. Participants should have some basic knowledge in chemistry**

Tasks Instructions:



Demonstrate the ability to load, open and equalize the cartridge, attach the mixing nozzle, and discard the first pump of material											
Demonstrate proper "molding" techniques, using contour sheeting, and form a new tab											
Demonstrate test to determine readiness to sand (check with fingernail, see if it leaves a white mark in the adhesive)											
<i>Safety and infection control are adhered to during all aspects of this task.</i>											
<i>The student completed task within the time limited.</i>											
<b>Points earned</b>											
<b>Total possible points (8)</b>											

**IX. Complete surface preparation and related tasks in the National Automotive Technicians Foundation (NATEF) and the ASE Collision Repair/Refinishing Non-structural Analysis and Damage (B3) Certification Test. A 20-point scale is used for each segment. Participants will be expected to successfully complete each segment. Participants should have some basic knowledge in chemistry**

Tasks Instructions:

	1	2	3	4	5	6	7	8	9	10
Demonstrate the ability to use 50 grit abrasive on a high speed grinder to rough shape the formed tab, followed by 180 grit on a DA to finely shape the tab, and lastly, a 320-grit abrasive to prepare the featheredge for the painting process										
Demonstrate the ability to use an 80 grit abrasive to "knock down" the bulk of the excess cosmetic repair material without abrading the surrounding plastic, which would leave "fuzzies"										
Demonstrate the ability to use 180-grit abrasive to successfully level the repair material and feather into the surrounding area										
Finish sand the repair and surrounding area with 320-grit abrasive to prepare for painting process										
Demonstrate the best practice of reapplying adhesion promoter after the final sanding step, to assure paint adhesion										
<i>Safety and infection control are adhered to during all aspects of this task.</i>										
<i>The student completed task within the time limited.</i>										
<b>Points earned</b>										
<b>Total possible points (7)</b>										

**X. Describe basic steering and suspension components of the vehicle to related tasks in the National Automotive Technicians Foundation (NATEF) Collision Repair/Refinishing Mechanical and Electrical Components Technical Standards\* (ASE B5 Test)**









