

Lesson Plan (for educators)

Automotive body repair



Lesson plan

AIM:

Developing your cold repair processes and skills.

ACTIVITY:

Apply 3 types of mechanical fastenings correctly and then remove and replace them with the approved alternatives.

Suitable for

Students undertaking vehicle body repair.

Resources needed

1. Video & SDH access (link)
2. Task brief
3. Marking criteria/scheme
4. Infrastructure list
5. H&S checklist
6. Skill fact sheet (WSUK)
7. End of assessment quiz

Skills

Self-management, informed, reflection, self-belief, drive, confident, proactive, efficient time management, accurate interpretation of information, precise measurement and interpretation of data.

Learning outcomes

After completing this activity learners will be able to:

- think about how to plan effective cold repairs and the environment
- recognise the importance of correctly using manufacturer data
- identify different mechanical fastenings and their correct uses
- explore accuracy when planning your repair
- learn how to plan your timings when using different types of adhesives
- learn the importance of correct tooling set up and after care.

Delivery modes

1. Students can go through the online materials independently – either at your facilities, if you have access to enough computers, or can go through the materials at home in their own time.
2. You can download and print all relevant resources, access the video demo and deliver the activity in the classroom.

Section	Timings	Key teaching points
Lesson Plan	5 minutes	Key processes of performing high quality cold repairs using bonding agents and mechanical fastenings and how to correctly and safely use the equipment and technical data sheets.
Video OR photo demonstration (ensure descriptors are provided for each photo)	10 minutes	Get students thinking about the different skills and the way a repair has to be planned compared to a traditional, thermally joined repair.
Task Brief (below)	10 minutes	Familiarise students with the key steps to complete the set task. Steps: <ul style="list-style-type: none"> • watch video • familiarisation of equipment • practice fitting and removing the 3 mechanical fastenings • read and make notes from the technical data sheets • prepare panels or sheet metal ready for use.
Infrastructure and H&S checklist	10 minutes	fFor the activity by ensuring all equipment is ready to use and that all H&S checks are in place.
Task Completion	10 minutes	Get students to complete the task by following the instructions on the task brief.
Marking Criteria	2 minutes	Provide markings to the students and encourage learners to record their received marking on SDH. Find the marking sheet in the resource library of this module. Do not forget to feedback to WorldSkills UK.