

Age Group	Percentage
18-24	~1%
25-34	~2%
35-44	~3%
45-54	~5%
55-64	~10%
65-74	~25%
75-84	~45%
85+	~20%

Through Articulated College Credit (ACC), specific college curriculum learning outcomes and assessments are embedded in participating high school career and technical education (CTE) programs as specified in this agreement. Relevant knowledge, skills, and standards are taught by qualified CTE high school instructor(s) in one or more high school course. ACC is awarded if the student meets the college equivalency standards and later enrolls in the college(s) listed below requiring the course in a specific program.

<b>Agreement Name</b>	<b>Auto Body Collision Technology – Cutting, Heating &amp; MIG Welding</b>
<b>Agreement Reviewed/Revised</b>	<b>2024 - 2025</b>

**These credits are valid for students in grades 9-12 for 5 years from the completion of this course.**

College	College Course	College Programs	ACC
Hennepin Technical College	ABCT 1145 – Cutting, Heating, & MIG Welding	<ul style="list-style-type: none"> <li>• Auto Body Technician (A.A.S. - 72 cr.)</li> <li>• Auto Body Technician (Diploma - 64 cr.)</li> <li>• Custom Fabrication &amp; Finishing (Occ. Cert. – 19 cr.)</li> <li>• Non-Structural Repair Technician Assistant (Occ. Cert. – 16 cr.)</li> </ul>	1 of 3 credits

## Course Description

Students will learn how to use oxy-acetylene cutting, heating, AND metal inert gas (MIG) welding on automotive sheet metal. Students will become familiar with how the MIG welding processes are used, the requirements for metal joining processes, and their application to auto collision repair.



## Curriculum Learning Outcomes

80% of the curriculum learning outcomes will be covered in the high school course(s) by qualified CTE high school instructor(s).

To receive the 1 of 3 college credits, the following outcomes will be addressed in the course:

1. Analyze MIG welding
2. Analyze Gas welding
3. Identify procedures for safe handling of high-pressure gas cylinders
4. Apply industry standard welds
5. Perform proper MIG welding techniques
6. Adjust welders
7. Determine the correct welder type (electrode, wire type, diameter and gas) to be used in a specific welding situation
8. Explain and demonstrate proper safety procedures when welding on vehicles with electronic modules

## Reference Textbook

Please go to [www.hennepintech.edu](http://www.hennepintech.edu) for the most recent text.

## Course Assessments

\*A score of **80% or better** is required to qualify for Articulated College Credit.

### Recommended Industry-Recognized Certifications Or Comprehensive Assessments – College & High School

Certifications/Assessments	Vendor	Further Information
Welding Technician – Entry (595E)	You Science	<a href="https://www.youscience.com/minnesota/files/standards-pdfs/(595E)ks.pdf">https://www.youscience.com/minnesota/files/standards-pdfs/(595E)ks.pdf</a>