

# Patoka Valley CTE Cooperative

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Director- Jarred Howard

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## Welding 1

Course Title: WELD 100 Welding Fundamentals, WELD 108 Shielded Metal Arc Welding, WELD 207 Gas Metal Arc (MIG) Welding

Location: Pike Central High School

Class time: 8:20-10:45 M-F

Credits per semester: 3

Description: Welding 1 is a one-year course for 11<sup>th</sup> grade students. The class meets three hours per day. Students gain experience and knowledge in the following processes using the A.W.S. Entry-level Welder Training Program:

1. Shielded Metal Arc Welding (S.M.A.W.)
2. Gas Metal Arc Welding (G.M.A.W. or M.I.G.)
3. Flux Core Arc Welding (F.C.A.W.)
4. Gas Tungsten Arc Welding (G.T.A.W. or T.I.G.)
5. Oxy-Acetylene Welding and Cutting (O.A.W. and O.F.C.-A)
6. Brazing
7. Air Carbon Arc Cutting
8. Plasma Arc Cutting
9. Blueprint Reading and Weld Symbols

Dual Credit Ivy Tech: WELD 100 Welding Fundamentals, WELD 108 Shielded Metal Arc Welding, WELD 207 Gas Metal Arc (MIG) Welding

Prerequisites/Requirements for application: None

Occupations/Job Placements: Entry-level welder upon completion of high school or continue education at a post-secondary institution. Examples of current employers of former students follow: Jasper Engines; Toyota; Onyett Fabrication; Four Star Fabricators; Peabody Coal; Highway Machine; Sisson Steel; and Apprenticeship Programs with Boilermakers, Pipe Fitters, and Ironworkers to become journeyman union craftsmen.

Instructor Information: Kevin Carter- [kcarter@pcsc.k12.in.us](mailto:kcarter@pcsc.k12.in.us)

## Welding 2

Course Title: Welding Capstone: WELD 208 Gas Tungsten Arc (TIG) Welding, WELD 272 Advanced Gas Metal (MIG) Welding II, WELD 273 Advanced Gas Tungsten Arc Welding II, WELD 206 Advanced Shielded Metal Arc Welding II

Location: Pike Central High School

Class time: 12:50-3:15

Credits Per Semester: 3 (6 per year)

Description: Welding 2 is a one-year course for 12<sup>th</sup> grade students. The class meets three hours per day. Students gain additional experience and knowledge in the following processes using the A.W.S. Entry-level Welder Training Program:

1. Shielded Metal Arc Welding (S.M.A.W.)
2. Gas Metal Arc Welding (G.M.A.W. or M.I.G.)
3. Flux Core Arc Welding (F.C.A.W.)
4. Gas Tungsten Arc Welding (G.T.A.W. or T.I.G.)
5. Oxy-Acetylene Welding and Cutting (O.A.W. and O.F.C.-A)
6. Brazing
7. Air Carbon Arc Cutting
8. Plasma Arc Cutting
9. Blueprint Reading and Weld Symbols

Prerequisites/Requirements for application: Welding 1

Dual Credit Ivy Tech: 21 hours - WELD 100 Welding Fundamentals, WELD 108 Shielded Metal Arc Welding, WELD 207 Gas Metal Arc (MIG) Welding WELD 208 Gas Tungsten Arc (TIG) Welding, WELD 272 Advanced Gas Metal (MIG) Welding II, WELD 273 Advanced Gas Tungsten Arc Welding II, WELD 206 Advanced Shielded Metal Arc Welding II. Upon completion of the 21 hours of dual credit, the student will receive a Certificate of Structural Steel Welding from Ivy Tech.

Occupations/Job Placements: Entry-level welder upon completion of high school or continue education at a post-secondary institution. Examples of current employers of former students follow: Jasper Engines; Toyota; Onyett Fabrication; Four Star Fabricators; Peabody Coal; Highway Machine; Sisson Steel; and Apprenticeship Programs with Boilermakers, Pipe Fitters, and Ironworkers to become journeyman union craftsmen.

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## [Program Video](#)

















