



CW High School

Metal Fabrication II

1. Design and planning (25.00%)

Learning Targets

1.1 I can produce a set of working drawings for a welding project using accepted drawing techniques, dimensions, and appropriate welding symbols.

Learning Target	Descriptor	Definition
4	Proficient	I can produce a set of working drawings for a welding project using accepted drawing techniques, dimensions, and appropriate welding symbols.
3	Developing	I can produce a set of working drawings for a welding project using accepted drawing techniques, dimensions, but not all of the welding symbols are present.
2	Basic	I can produce a set of working drawings for a welding project but the drawing is lacking in proper technique, a few dimensions are missing, and very few or no welding symbols are on the drawing.
1	Minimal	I can produce a set of drawings, significant information is missing. There is now possibility of making this project from this drawing.
0	No Evidence	No evidence shown.

1.2 I can generate an accurate bill of materials for a welding project including the type, size, amount, and costs of the materials and an estimate of consumables.

Learning Target	Descriptor	Definition
4	Proficient	I can generate an accurate bill of materials for a welding project including the type, size, amount, and costs of the materials and an estimate of consumables.
3	Developing	I can generate an accurate bill of materials for a welding project including the type, size, amount, and costs of the materials, but I do not have an estimate of consumables.
2	Basic	I can generate an accurate bill of materials for a welding project including the type, size, amount, of materials, but I do not have the costs.
1	Minimal	I some of the materials listed, but not all of the sizes, amounts, or costs.
0	No Evidence	No evidence shown.

1.3 I can create a plan of procedures in order to build a welding project including a detailed cutting list, and step by step procedures for all fabrication processes.

Learning Target	Descriptor	Definition
4	Proficient	I can create a plan of procedures in order to build a welding project including a detailed cutting list, and step by step procedures for all fabrication processes.
3	Developing	I can create a plan of procedures in order to build a welding project including a step by step procedures for all fabrication processes, but I am missing a detailed cutting list.



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Learning Target	Descriptor	Definition
2	Basic	I can create a plan of procedures in order to build a welding project, but it is missing some detailed steps and a cutting list.
1	Minimal	I can create a rough plan to build a welding project, but most of the details and some major steps are missing.
0	No Evidence	No evidence shown.

2. Fabrication (75.00%)

Learning Targets

2.1 I can demonstrate proficiency in using advanced fabrication equipment, including: the CNC plasma cutter, the press brake and punch on the iron worker, and the tubing bender.

Learning Target	Descriptor	Definition
4	Proficient	I can demonstrate proficiency in using advanced fabrication equipment, including: the CNC plasma cutter, the press brake and punch on the iron worker, and the tubing bender.
3	Developing	I can demonstrate proficiency in using 3 of the following pieces of equipment: the CNC plasma cutter, the press brake and punch on the iron worker, and the tubing bender.
2	Basic	I can demonstrate proficiency in using 2 of the following pieces of equipment: the CNC plasma cutter, the press brake and punch on the iron worker, and the tubing bender.
1	Minimal	I can demonstrate proficiency in using 1 of the following pieces of equipment: the CNC plasma cutter, the press brake and punch on the iron worker, and the tubing bender.
0	No Evidence	No evidence shown.

2.2 I can accurately cut and prep parts to size according to the print and process sheet.

Learning Target	Descriptor	Definition
4	Proficient	I can accurately cut and prep parts to size according to the print and process sheet.
3	Developing	I can cut and prep parts to size, but a small amount of the parts are slightly out of tolerance.
2	Basic	I can cut and prep parts to size, but almost half of the parts are out of slightly out of tolerance according to the print.
1	Minimal	I can cut and prep parts, but most of them are out of tolerance or have other defects.
0	No Evidence	No evidence shown.

2.3 I can fit and tack all parts of an assembly square and true to the print.

Learning Target	Descriptor	Definition
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Learning Target	Descriptor	Definition
4	Proficient	I can fit and tack all parts of an assembly square and true to the print.
3	Developing	I can fit and tack all parts of an assembly, but some of the parts are slightly out of square and may not be true to the print.
2	Basic	I can fit and tack all parts of an assembly, but a lot of the parts are slightly out of square and may not be true to the print.
1	Minimal	I can fit and tack most of the assembly, but there are some major problems with joints not being true to the print or square.
0	No Evidence	No evidence shown.

2.4 I can produce high quality welds on a project that pass visual inspection, are clean, uniform, and match the specifications on the print.

Learning Target	Descriptor	Definition
4	Proficient	I can produce high quality welds on a project that pass visual inspection, are clean, uniform, and match the specifications on the print.
3	Developing	I can produce high quality welds on a project that pass visual inspection, are clean, and uniform, but some of the welds do not match the print.
2	Basic	I can produce welds on a project that are clean and uniform, but most of the welds do not match the print or are not of a high quality.
1	Minimal	I can produce welds on a project, but most of the welds do not match the print or are not of a high quality, are not uniform, or are missing.
0	No Evidence	No evidence shown.

2.5 I can produce a professional product, similar in quality to products commercially manufactured.

Learning Target	Descriptor	Definition
4	Proficient	I can produce a professional product, similar in quality to products commercially manufactured.
3	Developing	I can produce a professional product, similar in quality to products commercially manufactured, but a few areas are not of professional quality.
2	Basic	I can produce a product, some parts are of a professional quality, but most of it is not.
1	Minimal	The project is mostly complete, but of very poor quality.
0	No Evidence	No evidence shown.

Submitted on 2/17/2020 by Bob Morehead