



Alternative Diploma Pathway
In Support of O.C.G.A., 20-2-149.2

WELDING TCC PATHWAY
Approved November 2020

14-29 Total Credit Hours

Students should complete any two of the following TCCs: FS31, GTA1, FC61, GT31, GM31, SM21, GM21, or OSM1

FS31 Basic Shielded Metal Arc Welder

WELD 1000 - Introduction to Welding Technology	4 CH
WELD 1010 - Oxyfuel and Plasma Cutting	4 CH
WELD 1040 - Flat Shielded Metal Arc Welding	4 CH

Total 12 credit hours

GTA1 Gas Tungsten Arc Welder

WELD 1001 - Introduction to Welding Technology	2 CH
WELD 1011 - Oxyfuel and Plasma Cutting	3 CH
WELD 1030 - Blueprint Reading for Welding Technology	4 CH
WELD 1111 - Gas Tungsten Arc Welding	5 CH

Total 14 credit hours

FC61 Flux Cored Arc Welder

WELD 1001 - Introduction to Welding Technology	2 CH
WELD 1011 - Oxyfuel and Plasma Cutting	3 CH
WELD 1030 - Blueprint Reading for Welding Technology	4 CH
WELD 1157 - Flux Cored Arc Welding	5 CH

Total 14 credit hours

GT31 NCCER Gas Tungsten Arc Welding

COFC 1080 - Construction Trades Core	4 CH
WELD 1045 - Gas Tungsten Arc Welding I	3 CH
Select 1 of the following Fundamentals Courses	
WELD 1005 - Welding and Cutting Fundamentals	3 CH
WELD 1007 - Welding Technology Fundamentals	3 CH

Total 10 credit hours

GM31 Gas Metal Arc Welder

WELD 1001 - Introduction to Welding Technology	2 CH
WELD 1011 - Oxyfuel and Plasma Cutting	3 CH
WELD 1030 - Blueprint Reading for Welding Technology	4 CH
WELD 1091 - Gas Metal Arc Welding	5 CH

Total 14 credit hours

SM21 NCCER Shielded Metal Arc Welding

COFC 1080 - Construction Trades Core	4 CH
WELD 1015 - Shielded Metal Arc Welding I	4 CH
Select 1 of the Following Courses	
WELD 1005 - Welding and Cutting Fundamentals	3 CH
WELD 1007 - Welding Technology Fundamentals	3 CH

Total 11 credit hours

GM21 NCCER Gas Metal Arc Welding

COFC 1080 - Construction Trades Core	4 CH
Select 1 of the following course clusters	
WELD 1005/1035 Cluster	
WELD 1005 - Welding and Cutting Fundamentals	3 CH
WELD 1035 - Gas Metal and Flux-Cored Arc Welding	4 CH
WELD 1007/1037 Cluster	
WELD 1007 - Welding Technology Fundamentals	3 CH
WELD 1037 - GMAW and FCAW Welding	4 CH

Total 11 credit hours

OSM1 Advanced Shielded Metal Arc Welder

WELD 1051 - Flat and Horizontal Shielded Metal Arc Welding	5 CH
WELD 1061 - Vertical Shielded Metal Arc Welding	5 CH
WELD 1071 - Overhead Shielded Metal Arc Welding	5 CH

Total 15 credit hours

TCCs can lead to an American Welding Society (AWS) certificate and/or an NCCER certificate