CTE Dual Credit

SEATTLE COLLEGES
North · Central · South

CTE DUAL CREDIT ARTICULATON AGREEMENT 2025- 2028

College Program: Welding Fabrication Technology

Career Cluster: Skilled Trades & Technical Training

South Seattle College/ Seattle Public Schools

The purpose of this agreement is to grant South Seattle College credit to high school students who have achieved the level of knowledge and skill required for the college-equivalent entry-level course(s) identified in this agreement. Upon successful completion of the identified course competencies with a grade of 'B' (3.0) or higher and the high school teacher's endorsement that the competency requirements have been met, articulated credit will be granted.

The following South Seattle College **Welding Fabrication Technology** courses have been approved for CTE Dual Credit articulation with Seattle Public Schools courses as listed below:

High School Courses	College Courses	College Credits
Skilled Trades PreApprenticeship 1A, 1B, 1C 2A, 2B, 2C (2 semesters/ 1 year)	WFT 100 Welding Theory	5 credits
	WFT 111 Materials & Testing	5 credits
	WFT 124 Gas Metal Arc Welding	6 credits

Student Articulation Procedure

1. Be enrolled in the required high school class.
2. Register for CTE Dual Credit articulated course during the same academic year the high school class is completed. If a series of courses are involved in the articulation, students register for credit during the same academic year the last course in the series is completed. Students cannot earn "retroactive credit" for courses taken in previous years.
3. Earn a grade of 'B' (3.0) or better in *all courses* required under the articulation agreement.
4. Satisfy all learning outcomes and objectives identified on college course outline *(see attached college course outline)*.

High School Instructors

1. Ensure that the high school course syllabus includes information about CTE Dual Credit, the college course competencies and the process required to earn college credit.
2. Hold students accountable for the same competency standard and course expectations as required by the college-equivalent course (*see college course outline)*.
3. Submit final grades for all students registered to earn CTE Dual Credit by the published deadline.
4. Attend scheduled meetings, workshops or professional development activities that enhance the high school/college partnership & support implementation of the CTE Dual Credit articulated program.

CTE Dual Credit

SEATTLE COLLEGES North · Central · South

ARTICULATON AGREEMENT LEARNING OUTCOMES CHECKLIST

College Program: Welding Fabrication Technology

Career Cluster: Skilled Trades & Technical Training

South Seattle College/ Seattle Public Schools

The following college course outcomes must be satisfied in the related high school course to meet the standards of the articulation agreement (80% at minimum):

COURSE OUTCOMES*:

WFT 100 - Welding Theory, 5 credits

1. Demonstrate a working knowledge of shop and welding safety procedures and practices.
2. Define and express common AWS welding, cutting, and fabricating terminology
3. Identify weld joints, types, and positions.
4. Demonstrate a working knowledge of basic electrical theory.
5. Demonstrate a working knowledge of various metal cutting processes and practices.
6. Demonstrate a working knowledge of various welding applications.

**Master Course Outline, version 04/13/22*

WFT 111 - Materials & Testing, 5 credits

1. Identify the major types of heat treating operations and explain their uses
2. Describe basic processes and necessities of destructive and nondestructive testing use in the current industry
3. Explain the purpose of a WPS
4. Explain the purpose of a PQR
5. Evaluate welding test plates and identify weld defects
6. Explain the effects of heat treating and welding on the mechanical properties of ferrous metals

**Master Course Outline, version 11/07/22*

WFT 124 -Gas Metal Arc Welding, 6 credits

1. Identify components of the Gas Metal Arc Welding equipment.
2. Explain GMAW principles of operation.
3. Safely transport, assemble, adjust, and maintain a GMAW equipment.
4. Perform assigned laboratory exercises using GMAW.

**Master Course Outline, version 04/13/22*