

WELDING AND PRECISION MACHINING CAREER PATHWAY

Preparations that can add this Endorsement:

Preparation	Pedagogy		CTE Methods		Test		Coursework		Other
Early Childhood	X	AND	X	AND	X	OR	X	OR	X
Elementary	X	AND	X	AND	X	OR	X	OR	X
Secondary			X	AND	X	OR	X	OR	X
CTE Preparation					X	OR	X	OR	X
K-12			X	AND	X	OR	X	OR	X
Early Childhood SPED	X	AND	X	AND	X	OR	X	OR	X
K-12 SPED			X	AND	X	OR	X	OR	X

State-Designated Pedagogy Requirements:

Test #	Test Name	Cut Score	Effective Date
5624	Principles of Learning and Teaching (7-12 PLT)	157	07/01/2012
Waiver of Pedagogy Test			7-12 PLT
The PLT test may be waived if verification of two or more years of state-certified teaching experience in the grade span of the endorsement is documented.			Experience in a 5-12 grade span

State-Designated Test Requirements (passage of one test):

Test #	Test Name	Cut Score	Effective Date
NOCTI 5479	Welding	55.1	02/23/2026
NOCTI 5176	NOCTI Precision Machining	82.9	05/15/2017

Coursework Requirements:

9 Semester hours of coursework including:
• 1 or more credits in lathe/mill operation
• 1 or more credits in sheet metal arc welding (SMAW)
• 1 or more credits in gas metal arc welding (GMAW)
• 1 or more credits in sheet metal in oxy gas welding

Other Requirements:

4000 Hours of Validated Work Experience in a Related Field within the previous five years		
Welder	Machinist	Mechanical Maintenance

Assignment Codes:

Code	Assignment Description	Code	Assignment Description	Code	Assignment Description
02993	Mathematics – Test Preparation	22001	Standardized Test Preparation	22250	Exploratory
10004	Workplace Technology Skills	22004	Dropout Prevention	22990	JAG – Middle School
13001	Introduction to Manufacturing	22051	Office Aide (By Students)	22991	JAG – High School
13203	Machine Tool Technology	22054	Tutoring (By Students)	25013	Life Management
13204	Advanced Machine Tooling Technology	22101	Leadership and Service	80018	Youth Internships
13207	Welding Technology	22104	Service Learning	80019	Senior Experience
13208	Advanced Welding Technology	22106	Freshman Seminar	80026	Entrepreneurship Experience
18404	Ag Metal Fabrications Technology	22110	AP Seminar	80020	Youth Apprenticeship
21009	Robotics	22151	Career Exploration	80033	E-Mentor (certified staff)
21106	Mechanical Drafting & Design	22152	Employability		