

TRL 120: INTEGRATING TECHNOLOGY IN APPRENTICESHIP TRAINING

Completed Workflow

1. C&A Office (sabird@wccnet.edu; aabooker@wccnet.edu; cacevans@wccnet.edu; kgwu@wccnet.edu; bjlinford@wccnet.edu)
2. Vice President for Instruction (hbhirth@wccnet.edu; brtucker@wccnet.edu)
3. Banner (cacevans@wccnet.edu)

Approval Path

1. 2025-12-01T19:01:55Z
Sera Bird (sabird): Approved for C&A Office
2. 2025-12-02T16:48:26Z
Brandon Tucker (brtucker): Approved for Vice President for Instruction
3. 2025-12-19T08:03:27Z
Approved for Banner

History

1. Dec 19, 2025 by Sera Bird (sabird)

New Course Proposal

Viewing: TRL 120 : Integrating Technology in Apprenticeship Training

Changes proposed by: Sera Bird (sabird)

Effective Term

Winter 2026

Rationale and proposal summary

New Course for Skill Trades Instructor Training Program

Course Cover

Full Course Title

Integrating Technology in Apprenticeship Training

Transcript Title

Integrating Technology

Subject Code

TRL - Trade Related Learning

Course Number

120

Department

United Association Dept (UASD)

Banner Division

ATP

Division/College

Adv Tech/Public Serv Careers (AT)

Org Code

28000

Course Description

In this course, students will develop modern instructional strategies to enhance student learning and classroom engagement using current technologies available in the industry. Students will explore hands-on learning, video-based instruction for skill reinforcement, and gamification techniques to boost engagement through interactive challenges. The course also examines the role of artificial intelligence (AI) and chatbots in personalized instruction, assessment, and retention. Limited to approved union program participants.

Has this course been approved for online or online blended?

No

Grading method

Standard Letter, Audit, Academic Forgiveness

CIP Code

469999 - Construction Trades, Other.

Occupational Indicator

Yes

ACS Code

130

Degree Attributes

BCL - Below College Level Pre-Reqs

Credit hours, contact hours, repeatability

Repeatable for additional credit

No

Course credits

1.5

Lecture contact hours

22.5

Lab contact hours

1.5

Total Contact Hours

24

Expected Total Contact Hours

24

Prerequisites and prerequisite skill levels

College-Level Math

No Level Required

College-Level Reading and Writing

College-level Reading and Writing

Approved Level I Prerequisite:

Academic Reading and Writing Levels of 6

Course Assessment Plan

Learning Outcome

Outcome

Design an AI-powered chatbot to enhance student learning and engagement using instructional strategies, integrating technologies, and interactive teaching methods.

Assessment #1

Assessment Tool

Outcome-related demonstration

Anticipated Next Assessment Year

2025

Anticipated Next Assessment Term

Fall

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Rubric

Who does the scoring?

Skill Trade Instructor

Standard of success

80% of students will score 80% or higher.

Assessment #2

Learning Outcome

Outcome

Produce video-enhanced skill demonstrations and AI-powered instructional materials.

Assessment #1

Assessment Tool

Outcome-related demonstration

Anticipated Next Assessment Year

2025

Anticipated Next Assessment Term

Fall

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Rubric

Who does the scoring?

Skill Trade Instructors

Standard of success

80% of students will score 80% or higher.

Assessment #2

Course Objectives

	Objective(s)
1.	Create instructional plans that incorporate interactive teaching methods and AI-driven tools, including chatbots, to support apprentice learning.
2.	Discuss current AI technology available and the creation of chatbots.

3. Utilize an AI chatbot to provide real-time feedback, answer apprentice questions, and reinforce key concepts in a trade-specific learning environment.
4. Discuss methods of classroom student engagement.
5. Assess the impact of interactive teaching methods and AI tools on apprentice engagement, knowledge retention, and skill development.
6. Develop clear, structured lesson plans and demonstration scripts to effectively convey trade skills through video and AI-generated materials.
7. Utilize video editing software to produce high-quality instructional demonstrations that showcase essential trade techniques.
8. Design and implement AI-powered instructional materials, such as interactive lessons or assessments, to enhance apprentice training and engagement.
9. Review resources available that can be used in video creation and the legal issues surrounding copyrighted material.

Resources

Will there be an additional fee on this course?

No

General Education Area(s)

Area 1: Writing

No

Area 2: 2nd Writing or Communication/Speech

No

Area 3: Mathematics

No

Area 4: Natural Science

No

Area 5: Social and Behavioral Science

No

Area 6: Arts and Humanities

No

MTA General Education

No

Review

Is conditional approval requested?

No

Is this course currently conditionally approved, and you are now submitting it for full approval?

No

Key: 9290