

# TRL 120: INTEGRATING TECHNOLOGY IN APPRENTICESHIP TRAINING

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## 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**

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**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

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Skill Trade Instructors

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**Assessment #2**

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**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