

UAT 349: WATER MIST FIRE PROTECTION SYSTEMS (UA 7003)

Completed Workflow

1. UATD Chair (mdonham@wccnet.edu)
2. AT Dean (krue@wccnet.edu,esamulski@wccnet.edu)
3. C&A Assistant (aabooker@wccnet.edu)
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9. After Comm review (sabird@wccnet.edu,bjlinford@wccnet.edu)
10. Curriculum Committee Chair (rvanwagnen@wccnet.edu)
11. Assessment Committee Chair (jhale15@wccnet.edu)
12. Before VPI (sabird@wccnet.edu)
13. Vice President for Instruction (eloubert@wccnet.edu; brtucker@wccnet.edu)
14. Banner (cacevans@wccnet.edu)

Approval Path

1. 2026-03-23T17:34:08Z
Marilyn Donham (mdonham): Approved for UATD Chair
2. 2026-03-23T19:18:16Z
Eva Samulski (esamulski): Approved for AT Dean
3. 2026-03-26T13:40:13Z
Sera Bird (sabird): Approved for C&A Assistant
4. 2026-03-27T14:16:41Z
Carol Evans (cacevans): Approved for Curricular Systems Coordinator
5. 2026-04-08T18:18:11Z
Sera Bird (sabird): Approved for C&A Coordinator
6. 2026-04-10T18:19:47Z
Ben Linford (bjlinford): Approved for C&A Director
7. 2026-04-10T21:23:02Z
Amber Booker (aabooker): Approved for Before Comm review
8. 2026-04-16T21:15:56Z
Amber Booker (aabooker): Approved for Comm Review step
9. 2026-05-13T18:23:00Z
Sera Bird (sabird): Approved for After Comm review
10. 2026-07-20T19:38:54Z
Sera Bird (sabird): Approved for Curriculum Committee Chair
11. 2026-07-20T19:39:06Z
Sera Bird (sabird): Approved for Assessment Committee Chair
12. 2026-07-20T19:39:15Z
Sera Bird (sabird): Approved for Before VPI
13. 2026-07-21T13:42:45Z
Brandon Tucker (brtucker): Approved for Vice President for Instruction
14. 2026-07-21T18:21:56Z
Carol Evans (cacevans): Approved for Banner

History

1. Jul 21, 2026 by Anthony Esposito (tonyesposito)

New Course Proposal

Viewing: UAT 349 : Water Mist Fire Protection Systems (UA 7003)

Changes proposed by: Anthony Esposito (tonyesposito)

Effective Term

Fall 2026

Rationale and proposal summary

New United Association Course in Fire Protection

Course Cover

Full Course Title

Water Mist Fire Protection Systems (UA 7003)

Transcript Title

Water Mist Fire Protc Sys 7003

Subject Code

UAT - United Association Training

Course Number

349

Department

United Assoc Dept (UAT Only) (UATD)

Banner Division

ATP

Division/College

Adv Tech/Public Serv Careers (AT)

Org Code

28200

Course Description

In this course, students will identify the principles and operation of water mist fire protection systems, including their design, installation, and operational functions. Students will explore the science behind water mist technology while learning proper installation techniques, testing procedures, and system acceptance requirements. The course will also cover the inspection, testing, and maintenance (ITM) requirements per the (National Fire Protection Association) NFPA 25. In addition, students will review and discuss the requirements outlined in NFPA 750 to ensure compliance with industry standards. Students will learn to create curriculum incorporating these concepts and skills for their local Training Centers. Limited to United Association Instructor Training program graduates.

Planned Delivery Format

Face to Face

Has this course been approved for virtual or blended virtual?

No

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

Is concurrent enrollment an option for this prerequisite?

No

Course Assessment Plan

Learning Outcome

Outcome

Identify the science behind water mist technology for fire suppression, control, and extinguishment.

Assessment #1

Assessment Tool

Outcome-related quiz

Anticipated Next Assessment Year

2029

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Answer key

Who does the scoring?

U.A. Instructors

Standard of success

80% of the students will score 80% or higher.

Assessment #2

Learning Outcome

Outcome

Demonstrate water mist system installation techniques, testing procedures, and troubleshooting, according to industry standard system acceptance requirements.

Assessment #1

Assessment Tool

Outcome-related demonstration

Anticipated Next Assessment Year

2029

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Departmental rubric

Who does the scoring?

U. A. Instructors

Standard of success

80% of the students will score 80% or higher.

Assessment #2

Learning Outcome

Outcome

Present a lesson plan related to ITM requirements per NFPA 25 and compliance with NFPA 750 industry standards.

Assessment #1

Assessment Tool

Outcome-related lesson plan

Anticipated Next Assessment Year

2029

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Checklist

Who does the scoring?

U. A. Instructors

Standard of success

80% of the students will score 80% or higher.

Assessment #2**Learning Outcome****Outcome**

Demonstrate the process of requesting, receiving and setting up the Water Mist Systems Trailer (FPTM).

Assessment #1**Assessment Tool**

Outcome-related demonstration

Anticipated Next Assessment Year

2029

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Checklist

Who does the scoring?

U. A. Instructors

Standard of success

80% of the students will score 80% or higher.

Assessment #2**Course Objectives**

	Objective(s)
1.	Review the history of water mist systems for specific applications such as maritime, road tunnels, and data processing rooms.
2.	Discuss the advancement in water mist systems in the 1990s due to the phasing out of halon for fire suppression.
3.	Identify the benefits of water mist systems for fire safety in spaces where the amount of water stored or discharged is limited.
4.	Discuss and demonstrate the equipment and installation techniques for water mist systems.
5.	Diagnose problems with installation and testing procedures.
6.	Troubleshoot components of water mist systems.
7.	Discuss the ITM requirements of NFPA 25, including checking for leaks, ensuring proper water flow, and verifying that alarms and controls are operational.
8.	Describe the record-keeping requirements for NFPA 25 for inspection and maintenance.
9.	Explain the minimum requirements of NFPA 750 for designing, installing, maintaining, and testing water mist systems.

10. Discuss the process of requesting and receiving the FPTM trailer.
11. Demonstrate the setup process for the FPTM trailer.
12. Discuss and demonstrate the proper PPE when operating the Water Mist Systems Trailer.
13. Create a lesson plan and other instructional content related to ITM requirements per NFPA 25 and compliance with NFPA 750 industry standards.

Resources

Will there be an additional fee on this course?

No

Are you planning to use First-Day resources?

No

Will this course always be OER/No Cost Resources?

No

Describe any resource needs

N/A

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

Reviewer Comments

Sera Bird (sabird) (2026-03-26T13:40:06Z): Pulling forward to CSC queue.

Sera Bird (sabird) (2026-04-06T19:58:48Z): Boilerplate assessment tools; Outcome/Obj language suggestions; contacted preparer 4/6

Sera Bird (sabird) (2026-04-08T18:18:09Z): Updated to outcomes, assessment plans, objectives made per email from preparer 4/7/26.

Sera Bird (sabird) (2026-07-20T19:38:50Z): Approved by C&A Committee Chairs via internal tracking system 7/20/26.

Sera Bird (sabird) (2026-07-20T19:39:04Z): Approved by C&A Committee Chairs via internal tracking system 7/20/26.

Key: 9319