

**Academic Program Assessment Plan**  
**Fire Protection Technology (2230)**  
**Fall 2022- Spring 2023**

Program Learning Outcomes	Assessments	Summary of Results*	Actions*
<p>1. Students will be knowledgeable of basic terms, concepts, principles and theories of the disciplines and professions that comprise Fire Protection Agencies.</p>	<p>Learning outcomes are assessed at the course level by individual faculty members and can include one or more of the following:            Comprehensive Exams ,Oral Presentation Capstone Course, Rubrics/Rating Scale,</p> <p><b><u>Courses Assessed:</u></b></p> <p><i>A. Introduction to Fire Protection ,Hazardous Materials, Fire Investigations</i></p> <p><b><u>Measurement Method:</u></b>            Exams and quizzes            Individual Oral presentation            Rubrics Scale (1-5).</p> <p><b><u>Expectations:</u></b>            Satisfactory course grade of 70% or above.</p> <p><i>Oral presentation score 75% or above.</i></p>	<p>87% of students achieved a final course grade of 70% or better in Intro to Fire Protection, Fire Investigations, Fire Safety in Building Design and Construction.</p> <p>90% of students achieved an oral presentation or class project grade of 75% or better in Intro to Fire Protection, Fire Investigations, Fire Safety in Building Design and Construction.</p> <p><b>Data will be collected and examined after semesters 1 and 2 of students first academic year.</b></p> <p><b>Sample size – Total students assessed- 31</b></p> <p><b>The results of this study were disseminated to and reviewed by the Fire Protection full time faculty. The Fire Protection faculty recommended 3 actions: Identify, remediate and continue to evaluate the at risk students in the 2023-2024 academic year.</b></p>	<p><b>1. Identify and support students at risk early in the semester.</b></p> <p><b>2. Remediation for at risk students-Students scoring less than 70% on any exam given during the semester, will be encouraged to receive tutoring. work in teams with other (not at risk) students, do extra credit work if offered and complete the exercises and quizzes from the text’s on-line learning center.</b></p> <p><b>3. Continue to collect and monitor data and re-evaluate data in 2023-2024academic year .</b></p>

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<b>Program Learning Outcomes</b>	<b>Assessments</b>	<b>Summary of Results</b>	<b>Actions</b>
2 . Demonstrate effective oral and written communication skills in Fire Administration and Technical Field Experience I and II work effectively in teams.	Communication skills and working effectively in teams are assessed at the course level that may include on or more of the following: Class project Capstone Course Selected assignments Oral Communication Rubrics Team Skills Rubrics	<b>100</b> % of students achieved a final course grade of 70% or better in Incident Management and Technical Fire Train/Field Experience I and II. Total # of students 6 100% of students achieved an oral or written presentation or class project grade of 75% or better in Incident Management and Technical Fire Train/Field Experience I and II. <b>Data will be collected and examined</b>	<u>Encourage students to improve their presentation skills by:</u> <u>1. Rehearsing with tape recorder or video camera.</u> <u>2. Designing effective visuals</u> <u>3. Practicing with other students outside of class.</u> <u>4. Continue to collect and analyze data</u>

	<p>Courses Assessed: Fire Administration, Technical Fire Train/Field Experience</p> <p>Measurement Methods: Individual Oral Presentations and Team Presentations- (Instructor Review) Presentation Rubrics (scale 1-5) Expectation: Satisfactory rating of 3.5 in all categories tested. <b><u>Oral presentation score 75% or above.</u></b></p>	<p>after semesters 3 and 4 of year 2 <b>27 total students were assessed. The results of this study were disseminated to and reviewed by the Fire Protection full time faculty. The Fire Protection faculty recommended 3 actions: Identify, remediate and continue to evaluate the at risk students in the 2023-2024 academic year.</b></p>	
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Program Learning Outcomes	Assessments	Summary of Results	Actions
<p>3. Will be able to critically evaluate, analyze and design Fire alarms and sprinkler systems. .</p>	<p>Critical thinking skills are assessed at the course level and include one or more of the following: Exams, quizzes, Capstone Course,</p> <p>Course Assessed: Fire Detection and Suppression Systems, Fire Sprinkler System</p>	<p><b>100% of students achieved a final course grade of 70% or better in Fire Detection and Suppression Systems, Fire Sprinkler System Design, Technical Fire Train/Field Experience.</b></p> <p><b>100% of students achieved an oral presentation or class project grade of 75% or better in Fire Detection and Suppression Systems, Fire</b></p>	<p><b>1. Identify and support students at risk early in the semester.</b></p> <p><b>2. Remediation for at risk students - Students scoring less than 70% on any exam given during the semester, will be encouraged to receive tutoring. Work in teams with other (not</b></p>

	<p>Design, Technical Fire Train/Field Experience Measurement Method: Exams, quizzes</p> <p>Expectations: Satisfactory course grade of 70% or above. <b>Oral presentation score 75% or above.</b></p>	<p><b>Sprinkler System Design, Technical Fire Train/Field Experience.</b> <b>Data will be collected and examined after semesters 2 and 3 of the program</b> <b>5 total students were assessed.</b> <b>The results of this study were disseminated to and reviewed by the Fire Protection full time faculty.</b> <b>The Fire Protection faculty recommended 3 actions: Identify, remediate and continue to evaluate the at risk students in the 2022-2023 academic year.</b></p>	<p>at risk) students, do extra credit work if offered and complete the exercises and quizzes from the text's on-line learning center.</p> <p><b>3. Continue to collect and monitor data.</b></p>
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**The Fire Protection Advisory Board whose members are the local region fire chiefs has assisted the program with curriculum development. Our rigorous curriculum, and the ability to complete EMT and Firefighter certifications qualifies our students to immediately compete for careers within the fire service. Students in the program have been hired at local fire departments, ambulance companies, hospitals, and other fire protection companies. Graduates of the program have gone on to pursue their bachelor's degree to enhance their opportunities for promotion and career advancement.**