

Program: Fire-AAS		Curriculum Map									
Program Outcomes: Upon completion of the program, graduates will be able to...	Essential Skills	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect and properly handle evidence	operate at a First responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application
Courses											
FIRE 101 Firefighter-I	12345	IRMA	IRMA	I	IRMA			IRA	I	IRA	IRMA
FIRE 102 Firefighter-II	12345	RMA	RA	RMA	RMA	R	R	RMA	RA	RA	RMA
FIRE 110 Haz. Materials Awareness	12345	IR	R		IR					IRA	IR
FIRE 111 Haz. Materials Ops	12345	IR	IRA		MA					IRA	R
FIRE112 Building Construction	13		R	RMA	IRMA			I			
FIRE202 Driver Operator	123					IRMA	IRMA				RMA
FIRE207 Struct.FF Strategy and Tactics	3	RMA	RMA		RMA			I	R		RMA
FIRE103 Tech Rescue-I	123	RA				R				I	
FIRE203 Tech Rescue-II	123	R	R					RMA		R	
FIRE204 Instructor-I	12345	MA		M							
FIRE205 Fire Investigator-I	12345	RMA			RMA				RMA		
FIRE220 Officer-I	12345	RMA	RMA	RMA	RMA		RMA	RMA	RMA	RMA	RMA

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

Essential Skills	
1	written communication
2	oral communication
3	critical thinking
4	cultural diversity
5	social responsibility

Course: FIRE101 FF-I

Curriculum Map

Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique, equipment and PPE for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect, and properly handle evidence	operate at a First responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application
Course SLO: Students will be able to										
work as a member of a team to perform various fireground operations	IRA	IRMA	I	IRA			I	I	IRA	IRA
employ safety procedures on and off the fireground	IRMA	IRMA					IRA	I		IRA
analyze fire behavior and its effects on building construction		IRMA		IRMA				I		IRMA
use and maintain PPE		IRMA						I		
describe and comply to the IMS system	IRA	IRA						I		

Mapping	
I	Introduced
R	Reinforced
M	Mastered
M	Mastered

Course: FIRE 102 Firefighter-II	Curriculum Map
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Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique, equipment and PPE for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application
Course SLO: Students will be able to										
coordinate an interior fire attack assignment	RMA	RA		RM	R	R	RA	RA		RMA
protect evidence of fire cause and origin.				MA				RA		
prepare a pre-incident survey based on information provided by the evaluator			RMA							
perform an annual service test on the fire hose.										RA
inspect hydrants for visible damage, remove the hydrant cap, check for obstructions in the hydrant outlet and test for hydrant drainage.					R	R				RA
operate at operations level at various types of rescue incidents							RMA			

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

Course: FIRE 110 Haz Mat Awareness		Curriculum Map								
Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique, equipment and PPE for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application
Course SLO: Students will be able to										
develop the ability, knowledge and skill to understand the role of the first responder at the Awareness level	IR	R		IR					IRA	IR
demonstrate the knowledge of and the ability and skill to understand the chemical and physical properties of Hazardous Materials including the risks involved.				IR					IRA	
demonstrate the proper use of the Emergency Guide Response Book to identify the presence of hazardous materials and to identify the proper actions to mitigate the incident safely.									IRA	
develop the knowledge and skills and demonstrate the ability for proper use of Personal Protective Equipment									IRA	
demonstrate the ability to realize the need for additional resources and to make the appropriate notifications to the communications center.									IRA	

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

Course: FIRE 111 Haz Mat operations		Curriculum Map								
Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique, equipment and PPE for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application
Course SLO: Students will be able to										
analyze the incident to determine the presence of hazardous materials, the magnitude of the problem and defensive actions needed to mitigate the incident using various resources provided.	IR	IRA							IRA	
survey the incident to determine if hazardous materials have been released and evaluate the surrounding conditions				MA					IRA	
predict the likely behavior of material and container using the General Hazardous Materials Behavior Model (GEMBO) and the potential harm to people and environment									IRA	
describe response objectives, defensive options and PPE for a given response.									IRA	R
define Terrorism and effects on general population and environment, to include; explosives, chemical, biological and radiological agents.									IRA	

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

Course: FIRE112 Building Construction		Curriculum Map									
Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique, equipment and PPE for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery systems (Nozzles, Foam and Master streams) and select the proper one for the application	
Course SLO: Students will be able to											
distinguish between the different types of building construction class I-V		R	RMA	RMA			I				
assess the design principles of various types of buildings		R	RA	R							
describe and comprehend different building classifications		R	RA	R							
understand structural principles: loads on structural members and effects during fire conditions		R	R	IMA							

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

Course: FIRE 204 Driver/Oper.	Curriculum Map									
Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique for Structure Fire, Rope, Trench, Confined Space and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application
Course SLO: Students will be able to										
inspect a fire department pumper and verify its operational status.					IRMA					
operate a fire department vehicle through various courses with obstructions					IRMA					
position a pumper at a hydrant and a static water source so an intake hose can be connected without kinks to the pump connection without repositioning the pumper						IRMA				
calculate water flow and pressure for various nozzles						IRMA				RMA

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

Strategy and Tactics	Curriculum Map									
Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application
Course SLO: Students will be able to										
organize, coordinate and command emergency incidents	RMA	RMA		RA						RMA
Apply communication procedures, pre-planning, and size-up	RMA	MA		MA				R		RA
develop an incident action plan	RMA									
compare the division of labor concept as used in company level operations	RMA									
identify and analyze the major causes involved in on-duty fire fighter fatalities related to health, wellness, fitness, and vehicle operations.	RMA									
compare the advantages and disadvantages of a mobile RIC versus a stationary RIC.	RMA									
evaluate ventilation options as they relate to fire location and select the best option given a scenario with several vent options	RMA					R				R
compare an offensive fire attack to a defensive fire attack, explaining the basics of each type of attack and identifying the rationale for each strategy.	RMA			R						R

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

Course: Tech Rescue-I		Curriculum Map									
Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique, equipment and PPE for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine its origin and cause and collect, protect and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application	
	Course SLO: Students will be able to										
describe scene size-up and the importance of proper personal protective clothing.	RA				R				I		
describe vehicle anatomy	RA										
list hazards involved while working on roadways.	RA										
define and properly use cribbing to stabilize a vehicle.	RA										

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

Course: Tech Rescue II		Curriculum Map								
Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique, equipment and PPE for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect, and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application
Course SLO: Students will be able to										
safely operate at vehicle and/or machinery at rescue incidents	R	R								
meet all the requirements to safely operate at water incidents.	R	R								
meet all the requirements to safely operate at wilderness search and rescue incidents.	R	R								
safely operate at trench and excavation incidents	R	R								
know the two types of elevators, lockout tagout and blinding operations, and safety precautions	R	R								
meet all requirements to operate safely at confined space incidents	R	R								

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

Course: FIRE 204 Instructor I		Curriculum Map									
Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique, equipment and PPE for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect, and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application	
Course SLO: Students will be able to											
Assemble course materials, given a specific topic, so that the lesson plan, all materials, resources, and equipment needed to deliver the lesson are obtained.	MA										
Review instructional materials, given the materials for a specific topic, target audience and learning environment, so that elements of the lesson plan, learning environment, and resources that need adaptation are identified.			MA								
Adapt a prepared lesson plan, given course materials and an assignment, so that the needs of the student and the objectives of the lesson plan are achieved.											
Adjust presentation, given a lesson plan and changing circumstances in the class environment, so that class continuity and the objectives or learning outcomes are achieved.	MA										
Present prepared lessons, given a prepared lesson plan that specifies the presentation method(s), so that the method(s) indicated in the plan are used and the stated objectives or learning outcomes are achieved.											

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

FIRE 205: Investigator I	<i>Curriculum Map</i>									
Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique, equipment and PPE for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect, and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application
Course SLO: Students will be able to										
The investigator trainee shall identify and describe fire		MA		MA				MA		
The investigator trainee shall identify rules applicable to the Arson Investigator certification adopted by the Commission on Fire Protection.	MA									
The investigator trainee shall identify and describe the basic classifications of building construction and the general fire behavior expected with each type of construction		MA		MA		MA				MA
The investigator trainee shall define and describe fire theory.				MA						
The investigator trainee shall describe the types and characteristics of automatic sprinkler systems.		MA								
The investigator trainee shall identify certain types of burn patterns used to locate the positions of objects as they were during a fire		MA		MA						

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact

FIRE 220: Officer I	Curriculum Map									
Program Outcomes	explain and apply Incident Management System principles	develop the basic firefighting fundamentals for entry into the fire service	understand the responsibilities of fire prevention, inspections and public relations	summarize the Science of Fire and the physics of fire growth within a compartment, as well as the effects of ventilation on compartment (structure) fires	drive and operate a fire department pumper safely	outline Basic Pump Theory, Hydraulics, and Fire Pump maintenance	select the proper rescue technique, equipment and PPE for Structure Fire, Rope, Trench, Confined Space, and Water rescue	analyze a fire scene and determine the origin and cause and collect, protect, and properly handle evidence	operate at a first responder level at Hazardous Material events	compare and contrast the various types of water delivery devices (Nozzles, Foam and Master streams) and select the proper one for the application
Course SLO: Students will be able to										
Identify and explain organizational structure of a fire department	MA	MA	MA			MA		R	MA	
Assign and supervise personnel in a safe and efficient manner, utilizing human resource policies and procedures applicable to the jurisdiction in a mock scenario.	MA								MA	
Identify and explain the duties involved in the general administration functions and the implementation of department policies and procedures at the unit level.	MA	MA						MA		MA
Identify and explain the duties involved in performing a fire investigation to determine the preliminary cause, secure the scene and preserve evidence	MA							MA		
Demonstrates the procedures necessary to integrate a safety plan into the daily activities to ensure a safe work environment for all personnel assigned to him or her.	MA		MA	MA		MA	MA			MA

Mapping	
I	Introduced
R	Reinforced
M	Mastered
A	Assessed/Artifact