

Fire Course 1. Foundations of Firefighting and Emergency Medical Services

Description: Fire Fighting and Emergency Medical Services introduces students to the foundational concepts of firefighting safety and emergency medical services. Students will analyze Ohio Department of Public Safety Fire protection and Ohio Emergency Medical Services rules and regulations in preparation for Firefighter I&II curriculum and EMT licensure.

Outcome	8.8. 911 Telecommunication System: Process calls for assistance and dispatch first responders according to protocol.					
Competencies	8.8.1. Interact with first responders and personnel in the field and assist in maintaining safety. 8.8.2. Communicate with the media and public. 8.8.3. Identify and describe legal and liability issues related to the emergency service telecommunicator (e.g., Federal Communications Commission [FCC] requirements; Title 18, U. S. Code; National Fire Protection Association [NFPA] 1221). 8.8.4. Describe the purpose of continuity of operations and disaster planning for 911 telecommunication centers. 8.8.5. Manage and prioritize incoming calls for service and recognize calls that require supervisor notification. 8.8.6. Communicate concisely with callers based on the situation and the needs of the caller. 8.8.7. Manage and identify callers and provide special assistance as needed to callers (e.g., hysterical, suicidal, mental or physical disability). 8.8.8. Provide timely and accurate direction to individuals when their lives are in immediate danger following guides and protocols. 8.8.9. Differentiate between call transfer and call referral. 8.8.10. Document calls for service. 8.8.11. Use radio dispatching techniques and procedures to process a request for emergency services. 8.8.12. Use call processing guidelines for law enforcement, fire, and emergency medical service when dispatching. 8.8.13. Use law enforcement, fire, and emergency medical service terminology. 8.8.14. Use geographical information system (GIS) and geographical positioning system (GPS) technology in emergency response operations.					
Pathways	X	Criminal Justice		X	Fire	
Green Practices		Green-specific		Context-dependent	X	Does not apply

Outcome	5.1. Organization and Mission: Explain the organization, mission statement, policies, and procedures of a fire department and explain the role of a Firefighter within the organization.					
Competencies	5.1.1. Discuss the critical aspects of fire department's member assistance program, the critical aspects of NFPA 1500, Fire Department Occupational Safety and Health Program. 5.1.2. State the mission of the fire service. 5.1.3. Describe the organization of the fire department. 5.1.4. Discuss the role of the Firefighter.					

	5.1.5.	Explain a fire department's standard operating procedures, rules, and regulations as they apply to firefighters.				
	5.1.6.	Discuss the role of their agencies as they relate to the department.				
	5.1.7.	Discuss the value of fire and life safety initiatives supporting the fire department's mission and to reduce the line of duty deaths.				
Pathways		Criminal Justice		X	Fire	
Green Practices		Green-specific		Context-dependent		X Does not apply

Outcome	4.2.	Preparatory: Apply fundamental knowledge of the Emergency Medical Services (EMS) system, safety/well-being of the Emergency Medical Technician (EMT), and medical/legal and ethical issues to the provision of emergency care.				
Competencies	4.2.1.	Apply simple depth and foundational breadth of knowledge on EMS systems including history of EMS, roles/responsibilities, professionalism of EMS personnel, quality improvement, and patient safety.				
	4.2.2.	Apply simple depth and breadth of knowledge on data collection and research using evidence-based decision making.				
	4.2.3.	Apply fundamental depth, foundational breadth of knowledge on workforce safety and wellness including wellness principles, standard safety precautions, personal protective equipment, stress management, dealing with death and dying, prevention of work-related injuries, lifting and moving patients, and disease transmission.				
	4.2.4.	Apply fundamental depth, foundational breadth of knowledge of documentation on the principles of medical documentation and report writing.				
	4.2.5.	Apply simple depth, simple breadth of knowledge on EMS communication systems, call for resources, transfer care of the patient, interaction within the team structure, communication with other health care professionals, and team communication and dynamics.				
	4.2.6.	Apply simple depth, simple breadth of knowledge on the principles of communicating with patients in a manner that achieves a positive relationship including adjusting communication strategies for age, stage of development, patients with special needs, and differing cultures.				
	4.2.7.	Apply fundamental depth, foundational breadth of knowledge on interviewing techniques, verbal defusing strategies, and family presence issues.				
	4.2.8.	Apply fundamental depth, foundational breadth of knowledge on the consent/refusal of care, expressed versus implied consent, advance directives, tort and criminal actions, evidence preservation, statutory responsibilities, mandatory reporting, and ethical principles/moral obligations.				
Pathways		Criminal Justice		X	Fire	
Green Practices		Green-specific		Context-dependent		X Does not apply

Outcome	5.36.	Hazardous Materials: Identify and respond to hazardous material incidents. The firefighter candidate shall meet the requirements defined in Chapter 5, Core Competencies for Operations Level Responders, and 6.6, Mission-Specific Competencies Product Control, of NFPA 472, Standard for				
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	Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents.				
Competencies	5.36.1. Identify different forms of hazardous materials. 5.36.2. Identify agencies that have resources to assist in hazards material incidents (e.g., Emergency Management Agency [EMA], Environmental Protection Agency [EPA], Federal Emergency Management Agency [FEMA]). 5.36.3. Identify and interpret hazards material labels and placards using the U. S. Department of Transportation [DOT] Emergency Response Guidebook. 5.36.4. Read and interpret Material Safety Data Sheet (MSDS) forms and shipping documents. 5.36.5. Identify sources of information on procedures for the safe cleanup, storage, and disposal of hazardous materials (e.g., CHEMTREC). 5.36.6. Describe the purpose of a hazardous materials safety plan.				
Pathways	X	Criminal Justice		X	Fire
Green Practices		Green-specific		Context-dependent	X Does not apply

Outcome	6.4. Hazardous Materials: Identify and describe procedures for reacting to a chemical, biological, radiological, nuclear, and high-yield explosive (CBRNE).				
Competencies	6.4.1. Identify possible targets and outcomes of CBRNE attacks and procedures to prevent and mitigate the threat. 6.4.2. Summarize the types of thermal, radiological, asphyxiation, chemical, etiological, mechanical (TRACEM) agents, behaviors, hazards, and harm. 6.4.3. Implement self-protective measures (e.g., shielding, time, distance) based on type of TRACEM incident. 6.4.4. Cite evidence and evaluate warning signs of CBRNE incidents. 6.4.5. Classify material and summarize response measures that should be taken with a CBRNE incident. 6.4.6. Draw conclusions based on hazard identity and physical environment to develop a scene control plan. 6.4.7. Use detection equipment to identify CBRNE agents and conduct a hazard and risk assessment. 6.4.8. Recognize the signs and symptoms of CBRNE agent exposure and formulate first aid, triage, and fatality management procedures. 6.4.9. Control and contain CBRNE agents and decontaminate self, victims, site, equipment, and mass casualties based on chemical, biological, or radiological agent. 6.4.10. Describe the unique crime scene and evidence preservation issues associated with a CBRNE incident. 6.4.11. Plan the transition from the response phase to the recovery phase in a CBRNE incident.				
Pathways	X	Criminal Justice		X	Fire
Green Practices		Green-specific		Context-dependent	X Does not apply

Outcome	6.5. Emergency Operations Plan: Describe the all-hazards emergency planning process from development to implementation of an emergency operations plan (EOP).				
Competencies	6.5.1. Describe an EOP and its purpose at the local, state, and federal level.				

	6.5.2. Identify public service systems and officials involved in planning.
	6.5.3. Identify and describe the four steps in emergency planning (i.e., hazard analysis, EOP development, EOP testing, EOP maintenance and revision).
	6.5.4. Identify and analyze hazards using the four-step hazard analysis method (i.e., identify hazard, profile hazard, profile community, determine vulnerability).
	6.5.5. List and describe the basic components of an EOP.
	6.5.6. Describe and differentiate functional annexes and hazard specific appendices.
	6.5.7. Activate the incident command system and implement an emergency response following an EOP.
Pathways	X Criminal Justice X Fire
Green Practices	Green-specific Context-dependent X Does not apply

Outcome	1.1. REQUIRED Employability Skills: Develop career awareness and employability skills (e.g., face-to-face, online) needed for gaining and maintaining employment in diverse business settings.
Competencies	1.1.1. Identify the knowledge, skills, and abilities necessary to succeed in careers. 1.1.2. Identify the scope of career opportunities and the requirements for education, training, certification, licensure, and experience. 1.1.3. Develop a career plan that reflects career interests, pathways, and secondary and postsecondary options. 1.1.4. Describe the role and function of professional organizations, industry associations, and organized labor and use networking techniques to develop and maintain professional relationships. 1.1.5. Develop strategies for self-promotion in the hiring process (e.g., filling out job applications, résumé writing, interviewing skills, portfolio development). 1.1.6. Explain the importance of work ethic, accountability, and responsibility and demonstrate associated behaviors in fulfilling personal, community, and workplace roles. 1.1.7. Apply problem-solving and critical-thinking skills to work-related issues when making decisions and formulating solutions. 1.1.8. Identify the correlation between emotions, behavior, and appearance and manage those to establish and maintain professionalism. 1.1.9. Give and receive constructive feedback to improve work habits. 1.1.10. Adapt personal coping skills to adjust to taxing workplace demands. 1.1.11. Recognize different cultural beliefs and practices in the workplace and demonstrate respect for them. 1.1.12. Identify healthy lifestyles that reduce the risk of chronic disease, unsafe habits, and abusive behavior.
Pathways	X Pathway 1 X Pathway 2 X Pathway 3 X Pathway 4
Green Practices	Green-specific X Context-dependent Does not apply

Outcome	1.2. REQUIRED Leadership and Communications: Process, maintain, evaluate, and disseminate information in a business. Develop leadership and team building to promote collaboration.
Competencies	1.2.1. Extract relevant, valid information from materials and cite sources of

	information.						
	1.2.2. Deliver formal and informal presentations.						
	1.2.3. Identify and use verbal, nonverbal, and active listening skills to communicate effectively.						
	1.2.4. Use negotiation and conflict-resolution skills to reach solutions.						
	1.2.5. Communicate information (e.g., directions, ideas, vision, workplace expectations) for an intended audience and purpose.						
	1.2.6. Use proper grammar and expression in all aspects of communication.						
	1.2.7. Use problem-solving and consensus-building techniques to draw conclusions and determine next steps.						
	1.2.8. Identify the strengths, weaknesses, and characteristics of leadership styles that influence internal and external workplace relationships.						
	1.2.9. Identify advantages and disadvantages involving digital and/or electronic communications (e.g., common content for large audience, control of tone, speed, cost, lack of non-verbal cues, potential for forwarding information, longevity).						
	1.2.10. Use interpersonal skills to provide group leadership, promote collaboration, and work in a team.						
	1.2.11. Write professional correspondence, documents, job applications, and résumés.						
	1.2.12. Use technical writing skills to complete forms and create reports.						
	1.2.13. Identify stakeholders and solicit their opinions.						
	1.2.14. Use motivational strategies to accomplish goals.						
Pathways	X	Pathway 1			X	Pathway 2	
	X	Pathway 3			X	Pathway 4	
Green Practices		Green-specific	X	Context-dependent			Does not apply

Outcome	1.3. REQUIRED Business Ethics and Law: Analyze how professional, ethical, and legal behavior contributes to continuous improvement in organizational performance and regulatory compliance.
Competencies	<p>1.3.1. Analyze how regulatory compliance affects business operations and organizational performance.</p> <p>1.3.2. Follow protocols and practices necessary to maintain a clean, safe, and healthy work environment.</p> <p>1.3.3. Use ethical character traits consistent with workplace standards (e.g., honesty, personal integrity, compassion, justice).</p> <p>1.3.4. Identify how federal and state consumer protection laws affect products and services.</p> <p>1.3.5. Access and implement safety compliance measures (e.g., quality assurance information, safety data sheets [SDSs], product safety data sheets [PSDSs], U.S. Environmental Protection Agency [EPA], United States Occupational Safety and Health Administration [OSHA]) that contribute to the continuous improvement of the organization.</p> <p>1.3.6. Identify deceptive practices (e.g., bait and switch, identity theft, unlawful door-to-door sales, deceptive service estimates, fraudulent misrepresentations) and their overall impact on organizational performance.</p> <p>1.3.7. Identify the labor laws that affect employment and the consequences of</p>

	<p>noncompliance for both employee and employer (e.g., harassment, labor, employment, employment interview, testing, minor labor laws, Americans with Disabilities Act, Fair Labor Standards Acts, Equal Employment Opportunity Commission).</p> <p>1.3.8. Verify compliance with computer, copyright, and intellectual property laws and regulations.</p> <p>1.3.9. Identify potential conflicts of interest (e.g., personal gain, project bidding) between personal, organizational, and professional ethical standards.</p>					
Pathways	X	Pathway 1	X	Pathway 2		
	X	Pathway 3	X	Pathway 4		
Green Practices		Green-specific	X	Context-dependent		Does not apply

Outcome	1.4. REQUIRED Knowledge Management and Information Technology: Demonstrate current and emerging strategies and technologies used to collect, analyze, record, and share information in business operations.					
Competencies	<p>1.4.1. Use office equipment to communicate (e.g., phone, radio equipment, fax machine, scanner, public address systems).</p> <p>1.4.2. Select and use software applications to locate, record, analyze, and present information (e.g., word processing, electronic mail, spreadsheet, databases, presentation, Internet search engines).</p> <p>1.4.3. Verify compliance with security rules, regulations, and codes (e.g., property, privacy, access, accuracy issues, client and patient record confidentiality) pertaining to technology specific to industry pathway.</p> <p>1.4.4. Use system hardware to support software applications.</p> <p>1.4.5. Use information technology tools to maintain, secure, and monitor business records.</p> <p>1.4.6. Use electronic database to access and create business and technical information.</p> <p>1.4.7. Use personal information management and productivity applications to optimize assigned tasks (e.g., lists, calendars, address books).</p> <p>1.4.8. Use electronic media to communicate and follow network etiquette guidelines.</p>					
Pathways	X	Pathway 1	X	Pathway 2		
	X	Pathway 3	X	Pathway 4		
Green Practices		Green-specific	X	Context-dependent		Does not apply

Outcome	1.5. REQUIRED Global Environment: Evaluate how beliefs, values, attitudes, and behaviors influence organizational strategies and goals.					
Competencies	<p>1.5.1. Describe how cultural understanding, cultural intelligence skills, and continual awareness are interdependent.</p> <p>1.5.2. Describe how cultural intelligence skills influence the overall success and survival of an organization.</p> <p>1.5.3. Use cultural intelligence to interact with individuals from diverse cultural settings.</p> <p>1.5.4. Recognize barriers in cross-cultural relationships and implement behavioral adjustments.</p> <p>1.5.5. Recognize the ways in which bias and discrimination may influence</p>					

	<p>productivity and profitability.</p> <p>1.5.6. Analyze work tasks for understanding and interpretation from a different cultural perspective.</p> <p>1.5.7. Use intercultural communication skills to exchange ideas and create meaning.</p> <p>1.5.8. Identify how multicultural teaming and globalization can foster development of new and improved products and services and recognition of new opportunities.</p>					
Pathways	X	Pathway 1		X	Pathway 2	
	X	Pathway 3		X	Pathway 4	
Green Practices		Green-specific	X	Context-dependent		Does not apply

Outcome	1.6. REQUIRED Business Literacy: Develop foundational skills and knowledge in entrepreneurship, financial literacy, and business operations.					
Competencies	<p>1.6.1. Identify business opportunities.</p> <p>1.6.2. Assess the reality of becoming an entrepreneur, including advantages and disadvantages (e.g., risk vs. reward, reasons for success and failure).</p> <p>1.6.3. Explain the importance of planning your business.</p> <p>1.6.4. Identify types of businesses, ownership, and entities (i.e., individual proprietorships, partnerships, corporations, cooperatives, public, private, profit, not-for-profit).</p> <p>1.6.5. Describe organizational structure, chain of command, the roles and responsibilities of the organizational departments, and interdepartmental interactions.</p> <p>1.6.6. Identify the target market served by the organization, the niche that the organization fills, and outlook of the industry.</p> <p>1.6.7. Identify the effect of supply and demand on products and services.</p> <p>1.6.8. Identify the features and benefits that make an organization's product or service competitive.</p> <p>1.6.9. Explain how the performance of an employee, a department, and an organization is assessed.</p> <p>1.6.10. Describe the impact of globalization on an enterprise or organization.</p> <p>1.6.11. Describe how all business activities of an organization work within the parameters of a budget.</p> <p>1.6.12. Describe classifications of employee benefits, rights, deductions, and compensations.</p>					
Pathways	X	Pathway 1		X	Pathway 2	
	X	Pathway 3		X	Pathway 4	
Green Practices		Green-specific	X	Context-dependent		Does not apply

Outcome	1.9. REQUIRED Financial Management: Use financial tools, strategies, and systems to develop, monitor, and control the use of financial resources to ensure personal and business financial well-being.					
Competencies	<p>1.9.1. Create, analyze, and interpret financial documents (e.g., budgets, income statements).</p> <p>1.9.2. Identify tax obligations</p> <p>1.9.3. Review and summarize savings, investment strategies, and purchasing</p>					

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	options (e.g., cash, lease, finance, stocks, bonds). 1.9.4. Identify credit types and their uses in order to establish credit. 1.9.5. Identify ways to avoid or correct debt problems. 1.9.6. Explain how credit ratings and the criteria lenders use to evaluate repayment capacity affect access to loans. 1.9.7. Review and summarize categories (types) of insurance and identify how insurances can reduce financial risk. 1.9.8. Identify income sources and expenditures. 1.9.9. Compare and contrast different banking services available through financial institutions. 1.9.10. Identify the role of depreciation in tax planning and liability.					
Pathways	X	Pathway 1		X	Pathway 2	
	X	Pathway 3		X	Pathway 4	
Green Practices		Green-specific	X	Context-dependent		Does not apply