

FIRE - Fire Technology Courses

FIRE B1 Fire Protection Organization

3 units

Description: Career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations offering the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. Field trips required.

Hours: 54 lecture

Transferable: CSU and private colleges.

FIRE B2 Principles of Fire and Emergency Services Safety and Survival

3 units

Description: This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

Hours: 54 lecture

Transferable: CSU and private colleges. Degree applicable.

FIRE B3 Fire Command, Strategy, & Tactics

3 units

Description: This course will cover fire department organization, management, resources, and the use of those resources to control various types of emergencies. The course will also cover the incident command system, tactics, and strategies. This course also provides an introduction to the national incident management system.

Hours: 54 lecture

Transferable: CSU and private colleges. Degree applicable.

FIRE B4 Fire Behavior and Combustion

3 units

Description: Theory and fundamentals of how and why fires start, spread and are controlled; an in-depth study of fire chemistry and physics, fire burning characteristics of materials, extinguishing agents, and fire control techniques.

Hours: 54 lecture

Transferable: CSU and private colleges. Degree applicable.

FIRE B5 Fire Prevention

3 units

Description: Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention systems, fire investigation and fire safety education.

Hours: 54 lecture

Transferable: CSU and private colleges. Degree applicable.

FIRE B6 Fire Protection Equipment and Systems

3 units

Description: This course provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers.

Hours: 54 lecture

Transferable: CSU and private colleges. Degree applicable.

FIRE B7 Building Construction for Fire Protection

3 units

Description: The study of the components of building construction that relate to fire/life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at fires/collapse emergencies. The development and evolution of building and fire codes will be studied in relationship to past fires/collapses in residential, commercial, and industrial occupancies.

Hours: 54 lecture

Transferable: CSU and private colleges. Degree applicable.

FIRE B25A Wildland Fire Behavior

3 units

Description: Provides the knowledge to understand wildland fire behavior at the supervisory level in the Incident Command System. Conforms to curriculum requirements of the National Wildfire Coordinating Group. Includes, but is not limited to, the material contained in S-290 Intermediate Fire Behavior.

Hours: 54 lecture

Transferable: CSU and private colleges.

FIRE B25B Wildland Firefighter Safety and Survival

3 units

Description: Study of factors that lead to unsafe working conditions in wildland firefighting and procedures to limit risk. Emphasis is placed on avoiding situations and conditions which have resulted in the fire shelter deployments, injuries, and fatalities. The Ten Standard Fire Orders and the Eighteen Situations that Shout Watch Out are studied in detail. Course meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 54 lecture

Transferable: CSU and private colleges.

FIRE B25C Wildland Fire Operations

3 units

Description: Presents the command structure and operational process of ground and air operations in the control of wildland fires. Fixed wing aircraft and helicopters are discussed. Includes interagency relationships, mobilization, trainee assignments, and the incident assignment kit. Course meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 54 lecture

Transferable: CSU and private colleges.

FIRE B25D Wildland Public Information Officer, Prevention, and Investigation

3 units

Description: Presents the information necessary to understand the roles and functions of the Wildland Fire Information Officer, Wildland Fire Prevention Officer, and Wildland Fire Investigation Officer.

Hours: 54 lecture

Transferable: CSU and private colleges.

FIRE B25E Wildland Fire Logistics, Finance, and Planning*3 units*

Description: Explains the roles, responsibilities, and functions of the planning, logistics, and finance sections that are utilized during the control of wildland fires. Meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 54 lecture**Transferable:** CSU and private colleges.**FIRE B26A S-200 Initial Attack Incident Commander (ICT 4)***1 unit*

Description: Prepares the student to function as an initial attack incident commander at the ICT4 level in the incident Command System. Includes preparation, mobilization, size up, leading the initial attack, and initial attack strategy. Meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 18 lecture**Transferable:** CSU and private colleges.**FIRE B26D Interagency Incident Business Management S-260***1 unit*

Description: Provides knowledge to perform the tasks of the position in the Incident Command System (ICS) for which basic incident business management is required. Provides policy and direction for incident business management. Intended for students to pursue a career with a wildland fire suppression agency or for a specialty with a municipal fire control agency.

Hours: 18 lecture**Transferable:** CSU and private colleges.**FIRE B26E S-215 Fire Operations in the Wildland/Urban Interface***1.5 units*

Description: Designed to meet the training needs for incident commanders (Type 4), strike team leaders, and company officers confronting wildland fire that threatens life, property, and improvements in the wildland urban interface. Course meets National Wildfire Coordinating Group curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments.

Hours: 27 lecture**Transferable:** CSU and private colleges.**FIRE B26G S-230 Crew Boss Single Resource***1.5 units*

Description: This is a classroom course designed to produce student proficiency in the performance of duties associated with the single resource boss position from initial dispatch through demobilization to the home unit. Topics include operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization, and post-incident responsibilities.

Hours: 27 lecture**Transferable:** CSU and private colleges.**FIRE B26K S-244 Field Observer***1.5 units*

Description: This course provides the student with the skills necessary to perform as a field observer (FOBS) and/or a fire effects monitor (FEMO). Topics include roles and responsibilities of the

FOBS and FEMO; how to make observations and document those observations; how to produce hand drawn and GPS field maps; and how to navigate using a compass and GPS. The navigation unit has field exercises, and the final field exercise will total 8 hours. Meets National Wildfire Coordinating Group/California State Fire Marshal curriculum criteria. Prepares students for employment with wildland fire management agencies and municipal fire departments. Offered: As a National Wildfire Coordinating Group / State Fire Marshal CFSTES class.

Hours: 27 lecture**Transferable:** CSU and private colleges.**FIRE B26M Display Processor***1 unit*

Description: This course provides students with the skills necessary to perform as a display processor (DPRO). Topics include general roles and responsibilities and how to assist the situation unit leader with producing incident maps, inputs for the Incident Status Summary (ICS-209) and other incident products. Pre-course work, students need to read specific chapters in Basic Land Navigation (NFES 2865). This class is a National Wildfire Coordinating Group / State Fire Marshal CFSTES class.

Hours: 18 lecture**Transferable:** CSU and private colleges.**FIRE B27B 1-300 Incident Command System***1.5 units*

Description: Provides description and detail of the organization and operation of the ICS. Covers management of resources, duties of all positions including the Air Operations organization, and example of how the essential principles are used in incident and event planning. Meets the curriculum requirements of the National Wildfire Coordinating Group. Applicable to wildland fire management agencies and municipal fire departments. Offered as a National Wildfire Coordinating Group /State Fire Marshal CFSTES class.

Hours: 27 lecture**Transferable:** CSU and private colleges.**FIRE B28B L-280 Followership to Leadership***1 unit*

Description: This training course is designed as a self-assessment opportunity for individuals preparing to step into a leadership role. The course combines classroom and lab (in the field) instruction, with students working through a series of problem solving events in small teams (Field Leadership Assessment Course).

Hours: 20 lecture**Transferable:** CSU and private colleges.**FIRE B29 S-212 Wildland Fire Chain Saws***2 units*

Description: Prepares students to become a wildfire powersaw operator within the National Interagency Management System. Covers safety considerations, techniques of saw operation, maintenance, and repair. Wildland Fire Chain Saws (S-212) is identified training in the National Wildfire Coordinating Group Suppression/California State Fire Marshal Curriculum. Intended for students to pursue a career with a federal or state wildland fire management agency or as specialty training with a municipal/ county fire agency.

Hours: 36 lecture**Transferable:** CSU and private colleges.

FIRE B30 RT130 Wildland Skill Refresher*2 units*

Description: Annual fireline Safety Refresher Training is designed to provide up-to-date fireline safety information to anyone who will be working on the fireline. The RT130 class was developed to recognize hazards, mitigate risk, maintain safe practices, and reduce accidents and near misses on the fire ground.

Hours: 9 lecture, 81 lab**Repeat:** Legally mandated training**Transferable:** Not transferable. Not degree applicable.**FIRE B51F Fire Investigation 1A***2 units*

Description: This course provides the participants with an introduction and basic overview of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire's origin. Arson investigators will successfully carry out their responsibilities in arson detection and explosives investigation. Emphasizes essential elements of fire and explosives behaviors, types and use of lab services, and investigative responsibilities of an investigator at location of arson and explosives incidents. Meets P.O.S.T. certification requirements. Offered as a State Fire Marshal CFSTES class.

Hours: 40 lecture**Transferable:** Not transferable. Not degree applicable.**FIRE B51G Training Instructor 1A***2 units*

Description: This is the first of a three-course series. Topics include methods and techniques for training in accordance with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching cognitive lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two student teaching demonstrations are required of each student.

Hours: 40 lecture**Transferable:** Not transferable. Not degree applicable.**FIRE B51H Training Instructor 1B***2 units*

Description: This is the second of a three-course series. Topics include methods/techniques for training with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching psycho-motor lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two student teaching demonstrations are required of each student.

Hours: 40 lecture**Transferable:** Not transferable. Not degree applicable.**FIRE B51J Fire Investigation 1B***2 units*

Description: Topics of discussion include the juvenile fire setter, report writing, evidence collection and preservation procedures. Course meets P.O.S.T. certification requirements.

Hours: 40 lecture**Transferable:** Not transferable. Not degree applicable.**FIRE B51K Fire Command 1C***2 units*

Description: This course is designed around the responsibilities of

the Company Officer at a wildland/urban interface incident. It will bring the structural Company Officer out of the city and into the urban/interface; in other words, from his or her comfort zone into an area that could very well be quite unfamiliar for Fire Service Officers.

Hours: 32 lecture, 8 lab**Transferable:** Not transferable. Degree applicable.**FIRE B51L Fire Apparatus Driver Operator 1A***2 units*

Prerequisite: FIRE B62 or FIRE B63 with a grade of 'C' or better and a California Class B driver's license, fire fighter restricted.

Description: This course provides the student with information on driver responsibilities, recognized standards, and related laws for fire apparatus reflecting current California Vehicle Code requirements and the 2009 NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. Topics include basic inspections, documentation, maintenance, and troubleshooting fire apparatus, and techniques on driving and positioning fire apparatus. Each student also has the opportunity to increase his or her driving skills during simulated driving conditions.

Hours: 24 lecture, 16 lab**Transferable:** Not transferable. Degree applicable.**FIRE B51M Fire Apparatus Driver/Operation 1-B***2 units*

Prerequisite: California driver's license, Class A, B or C, with a fire fighter endorsement.

Description: This course was developed to reflect the 2009 NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. This course provides the student with information on pump construction and theory of pump operations. Topics include methods for performing basic hydraulics and techniques on basic inspections, documentation, maintenance, and troubleshooting fire pumps. Each student also has the opportunity to increase his or her pumping skills during simulated pumping conditions.

Hours: 24 lecture, 16 lab**Transferable:** Not transferable. Not degree applicable.**FIRE B52A Company Officer 2A***2.5 units*

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene.

Hours: 45 lecture**Transferable:** Not transferable. Degree applicable.**FIRE B52B Company Officer 2B***1.5 units*

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides information on general administrative functions, the implementation of department policies and procedures, and addresses conveying the fire department's role, image, and mission to the public.

Hours: 27 lecture**Transferable:** Not transferable. Degree applicable.**FIRE B52C Company Officer 2C***2.5 units*

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause, securing the incident scene and preserving evidence.

Hours: 45 lecture

Transferable: Not transferable. Degree applicable.

FIRE B52D Company Officer 2D

2.5 units

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides information on conducting incident size-up, developing and implementing an initial plan of action involving single and multi-unit operations for various types of emergency incidents to mitigate the situation following agency safety procedures, conducting pre-incident planning, and develop and conduct a post-incident analysis.

Hours: 45 lecture

Transferable: Not transferable. Degree applicable.

FIRE B52E Company Officer 2E

2.5 units

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports.

Hours: 45 lecture

Transferable: Not transferable. Degree applicable.

FIRE B52F Chief Fire Officer 3A

1.5 units

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides students with a basic knowledge of the human resources requirements related to the roles and responsibilities of a Chief Fire Officer including developing plans for providing employee accommodation, developing hiring procedures, establishing personnel assignments, describing methods of facilitating and encouraging professional development, developing an ongoing education training program, developing promotion procedures, developing proposals for improving employee benefits, and developing a measurable accident and injury prevention program.

Hours: 27 lecture

CCS: Credit Course

Transferable: Not transferable. Degree applicable.

FIRE B52G Chief Fire Officer 3B

1 unit

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides students with a basic knowledge of the budgeting requirements related to the roles and responsibilities of a Chief Fire Officer including developing a budget management system, developing a division or departmental budget, and describing the process for ensuring competitive bidding.

Hours: 18 lecture

Transferable: Not transferable. Degree applicable.

FIRE B52H Chief Fire Officer 3C

1.5 units

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides students with a basic knowledge of the administration requirements related to the roles and responsibilities of a Chief Fire Officer including directing a department record management system, analyzing and interpreting records and data, developing a model plan for continuous organizational improvement, developing a plan to facilitate approval, preparing community awareness programs, and evaluating the inspection program of the AHJ.

Hours: 27 lecture

Transferable: Not transferable. Degree applicable.

FIRE B52I Chief Fire Officer 3D

1.5 units

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides students with a basic knowledge of the emergency service requirements related to the roles and responsibilities of a Chief Fire Officer including developing a plan for the integration of fire services resources, developing an agency resource contingency plan, evaluating incident facilities, supervising multiple resources, developing and utilizing an incident action plan, obtaining incident information to facilitate transfer of command, developing and conducting a post-incident analysis, and maintaining incident records.

Hours: 27 lecture

Transferable: Not transferable. Degree applicable.

FIRE B52J Executive Chief Fire Officer 4A

2 units

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are recruitment, selection, and placement of human resources; the development of a positive and participative member/management program; the establishment and evaluation of a list of education and in-service training goals; appraisal of a member assistance program; and the evaluation of an incentive program to determine if the desired results are achieved.

Hours: 36 lecture

Transferable: Not transferable. Degree applicable.

FIRE B52K Executive Chief Fire Officer 4B

1 unit

Prerequisites: Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.

Description: This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching theme of this curriculum is assuming a leadership role in community events.

Hours: 18 lecture

CCS: Credit Course

Transferable: Not transferable. Degree applicable.

FIRE B52L Executive Chief Fire Officer 4C*2 units***Prerequisites:** Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.**Description:** This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are developing a comprehensive, long-range plan; evaluating and projecting training requirements, facilities, and building needs; completing a written comprehensive risk, hazard, and value analysis; and developing a plan for a capital improvement project or program.**Hours:** 36 lecture**Transferable:** Not transferable. Degree applicable.**FIRE B52M Executive Chief Fire Officer 4D***2.5 units***Prerequisites:** Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.**Description:** This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are developing a comprehensive disaster plan and a comprehensive plan for the organization to operate at a civil disturbance.**Hours:** 45 lecture**Transferable:** Not transferable. Degree applicable.**FIRE B52N Executive Chief Fire Officer 4E***1 unit***Prerequisites:** Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.**Description:** This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching theme of this curriculum is maintaining, developing, and providing leadership for a risk management program.**Hours:** 18 lecture**Transferable:** Not transferable. Degree applicable.**FIRE B52O Instructor 1 - Instructional Methodology***2 units***Description:** This course provides the skills and knowledge needed for the entry level professional instructor to perform his or her duties safely, effectively, and competently. The curriculum is based on the 2012 edition of NFPA 1041 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Instructor I certification will be able to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. The Instructor I will also be able to adapt a lesson plan and complete the reporting requirements to the local jurisdiction.**Hours:** 40 lecture**Transferable:** Not transferable. Not degree applicable.**FIRE B60 Driver/Operator Certification***2 units***Description:** Knowledge and skills in pump operations for fire engineers. Includes procedures on pumps, pumping principles, practical hydraulics, safe apparatus operation en route and at scenes of emergencies, principles of reading and interpreting gauges, hydrant operations and drafting procedures.**Hours:** 32 lecture, 8 lab**Transferable:** Not transferable. Degree applicable.**FIRE B62 Fire Fighter I Academy***12.5 units***Prerequisite:** Physical agility, medical physical, live scan, and uniform.**Description:** Basic educational and practical training essential for Fire Fighter I. Advanced study of organizational procedures; forcible entry tools; protective breathing apparatus; emergency medical care; inspection procedures; fire protection equipment and systems; wildland fire control; fire behavior; and petroleum fire procedures.**Hours:** 108 lecture, 351 lab**Transferable:** CSU and private colleges. Degree applicable.**FIRE B63 Fire Fighter II Academy***3.5 units***Description:** Advanced academic and manipulative training essential for the achievement of job tasks specified for Fire Fighter II. Covers general knowledge germane to the profession, fire department communications, fire ground operations, rescue operations, and prevention, preparedness, and maintenance. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications. Meets requirements for the California State Board of Fire Services, Fire Fighter II certification.**Hours:** 42 lecture, 76 activity/skills, 8 testing**Transferable:** Not transferable. Degree applicable.**FIRE B64 State Fire Fighter I Academy***16.5 units***Prerequisite:** Successful completion of EMTC B51 with a grade of C or better. Physical agility, medical physical, live scan, and uniform.**Description:** Provides the skills and knowledge needed for the entry level fire fighter, career or volunteer, to perform their duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications, the 2012 edition of NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications and the 2008 edition of NFPA 472 Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. The curriculum includes: fire department communications, fire ground operations, rescue operations, preparedness and maintenance, wildland suppression activities, and hazardous materials/WMD.**Hours:** 171 lecture, 378 lab**Transferable:** Not transferable. Degree applicable.**FIRE B66 Fire Fighting Skills***8 units***Prerequisites:** Successful completion of FIRE B62 or FIRE B63 or FIRE B64 with a grade of C or better.**Description:** Professional development workshops and seminars related to fire fighting skills. Practical experience including utilization of fire hose, ladders, tools, salvage, chemistry, extinguisher and agents, fire control, prevention, arson, crowd and traffic control, manual aid, communications, fire and health safety, and emergency rescue techniques.**Hours:** 90 lecture, 162 lab**Repeat:** Legally mandated training**Transferable:** Not transferable. Not degree applicable.**FIRE B69 State Fire Fighter II Academy***4 units***Prerequisites:** Successful completion of FIRE B62 or FIRE B64 with a grade of C or better.**Description:** This course provides the skills and knowledge needed for the entry level professional fire fighter to perform his/her duties

safely, effectively, and competently. The five overarching themes of the California State Fire Fighter II curriculum are: general knowledge germane to the profession, fire department communications, fire ground operations, rescue operations, and prevention, preparedness, and maintenance. Hours: 45 lecture, 81 lab
Transferable: Not transferable. Degree applicable.

FIRE B70A Hazardous Materials for First Responders

1 unit

Description: This class is mandated by law or called upon by necessity to assess, plan for, and initiate mitigation of incidents involving hazardous materials. Content covers the extent and nature of today's hazardous materials problem, effects of weather, topography, and environmental conditions on the behavior of hazardous materials and the containment efforts these conditions require. Defensive tactics to contain the release from a safe distance, keep it from spreading, and prevent exposures without trying to stop the release. Meets and exceeds the requirements of CFR 29 1910.120 and CCR Title 8. This course meets National Wildfire Coordinating Group and State Fire Marshal CFSTES class.

Hours: 24 lecture

Transferable: Not transferable. Not degree applicable.

FIRE B70B First Responder Operational-Decontamination

0.5 unit

Description: This course will provide the hazardous materials emergency responder with the processes used in decontamination and methods to limit the spread of hazardous materials contamination in a safe and competent manner. As a National Wildfire Coordinating Group /State Fire Marshal CFSTES/CSTI class.

Hours: 9 lecture

Transferable: Not transferable. Not degree applicable.

FIRE B70C Hazardous Materials Incident Commander/Scene Manager

1 unit

Description: Provide students with competencies needed to assume the role of an Incident Commander, as well as leadership skills for any other Command of Staff Incident Command System positions which are necessary during a hazardous materials incident. Content will also accentuate personnel safety and Occupational Education

Hours: 18 lecture

Transferable: Not transferable. Not degree applicable.

FIRE B70D Hazardous Materials Technician/Spec 1A: Basic Chemistry

2.5 units

Description: Technical training in the physical and chemical terminology important to hazardous materials technicians/specialists and prevention officers, ability to determine properties of a chemical compound by name or formula. Includes study of important terms which describe properties, reactions with other materials, and the effects upon human beings, environment, and property. Applies to Hazardous Materials Technician/Specialist certification. This also meets the State Fire Marshal California State Training Institute and CSTI California State Training Institute course requirements, Occupational Education.

Hours: 45 lecture

Transferable: Not Transferable. Degree Applicable.

FIRE B70E Hazardous Materials Technician/Specialist 1B: Applied Chemistry

2.5 units

Description: This course will review the basic terminology and theory of chemistry as it relates to hazardous materials incident management. Additional new content to include: hazard and risk management; behavior and effect of toxicant and the major biological systems affected by toxicant; as well as using monitoring equipment to detect hazardous atmospheres and unknown solids and liquids. Applies to Hazardous Materials Technician/Specialist I certification.

Hours: 45 lecture

Transferable: Not Transferable. Degree Applicable.

FIRE B70F Hazardous Materials Technician/Specialist 1C: Incident Considerations

2 units

Description: Content covers hazardous materials data research; meteorological considerations that influence hazardous materials response activities; hazardous materials incidents command concepts associated with response activities; incident specific considerations that influence hazardous materials response activities; and legislative and regulatory policies that impact hazardous materials response activities. Applies to Hazardous Materials Technician/ Specialist certification and is a California State Training Institute class.

Hours: 32 lecture, 8 lab

Transferable: Not transferable. Not degree applicable.

FIRE B70G Hazardous Materials Tech/Spec 1D: Tactical Field Operations

1.5 units

Description: Information on confinement, including diking, dams and sorbent; awareness on plugging and patching; application of chemical protective clothing; preservation of evidence; and emergency medical considerations at a hazardous materials incident. Applies to Hazardous Materials Technician/Specialist certification. Offered: As a California State Training Institute class.

Hours: 18 lecture, 27 lab

Transferable: Not transferable. Not degree applicable.

FIRE B70H Hazardous Materials Tech/Spec 1E: Special Mitigation Techniques

1 unit

Description: Content covers medical monitoring guidelines; use of Level 'A' chemical protective clothing; repair leaks on a rail tank car; procedures to simulate off-loading hydrocarbons from a rolled over DOT MC-306/406 aluminum tank truck; and practice as a member of a hazardous materials team in simulated hazardous materials incidents. Applies to Hazardous Materials Technician/Specialist certification.

Hours: 9 lecture, 31 lab

Transferable: Not transferable. Not degree applicable.

FIRE B70I Hazardous Materials Tech/Spec 1F: Advanced Field Operations

1 unit

Description: Practical application of methods and procedures to mitigate leaking containers; transferring hazardous materials between containers; classifying known and unknown chemicals; participating as a member of hazardous materials team in simulated hazardous materials incidents; and exercising safe methods while operating at hazardous materials incidents. Applies to Hazardous

Materials Technician/Specialist certification.

Hours: 9 lecture, 31 lab

Transferable: Not transferable. Not degree applicable.

FIRE B71A Seasonal Firefighter Basic Training 1

2 units

Description: All of the federal fire agencies and many municipal fire departments recognize this course as the foundation to all subsequent wildland fire training. This is "The Basics" it will provide students with an understanding of wildland firefighting principals, tactics, organization, and fireline safety. This class covers NWCG L180, S130, and S190 course material.

Hours: 27 lecture, 27 lab

Transferable: Not transferable. Degree applicable.

FIRE B71B Seasonal Firefighter Basic Training 2

1 unit

Prerequisites: Successful completion of FIRE B71A with a grade of 'C' or better.

Description: Manipulative and technical training in the identification and operation of wildland fire tools and equipment. Includes fire-line construction practices, physical fitness and water-handling equipment. Satisfies one-half of required training standards.

Hours: 9 lecture, 27 lab

Transferable: Not transferable. Degree applicable.

FIRE B72A Rescue Systems 1

2 units

Description: Technical knowledge and practical skills necessary to successfully perform team organization, rescue, and environmental considerations, use of ropes, knots rigging and pulley systems, descending, rappelling, and belaying tools and techniques, subsurface rescue techniques, use of cribbing, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescue situations, and day and night simulated rescue exercises. Accredited by the California Fire Service Training and Education System.

Hours: 24 lecture, 16 lab

Transferable: Not transferable. Not degree applicable.

FIRE B72D Swift Water Rescue

1 unit

Description: Basic techniques necessary to perform emergency rescue procedures involving swift water rivers. Emphasizes basic rescue knot practices, handling small rescue boats, emergency care, and controlling special hazard and problems in swift water emergencies.

Hours: 18 lecture

Transferable: Not transferable. Not degree applicable.

FIRE B72F Auto Extrication

0.5 unit

Description: A systematic approach to vehicle rescue, and the use of mechanical and hand tools used in the extrication process.

Hours: 9 lecture, 7 lab

Transferable: Not transferable. Not degree applicable.

FIRE B72I Emergency Medical Technician I Refresher

1 unit

Prerequisites: Successful completion of FIRE B72H or equivalent with a grade of 'C' or better.

Description: A review of material in FIRE B72H with updates on

EMT-1 issues and new material or skill techniques. An approved refresher course that follows state regulations and leads to a re-certification completion certificate. This course meets the requirements to continue practicing pre-hospital emergency care in the County of Kern.

Note: Not open to students who have completed EMTC B50R.

Hours: 24 lecture

Transferable: Not transferable. Degree applicable.

FIRE B73 Intermediate Wildland Fire Behavior S-290

2 units

Description: Professional development related to the topic of wildland fire behavior. This course provides instruction in the identification and prediction of wildland fire behavior in various fuel types and under varying weather conditions. Prepares municipal, county, state, and federal fire personnel to meet certification standards set forth by the National Inter-agency Incident Management System.

Hours: 36 lecture

Transferable: Not transferable. Not degree applicable.

FIRE B79 Regional Instructor Orientation

0.5 unit

Description: This course is designed to provide instructors with an overview of State Fire Training, instructor registration requirements, instructor responsibilities and accountability, how to schedule and return courses, and manual procedures.

Hours: 9 lecture

Transferable: Not transferable. Not degree applicable.

FIRE B85 Special Topics/Fire

0.5-3 units

Description: Various mandated training topics required by California State Fire Marshal (CSFM).

Hours: 9 lecture hours for each .5 unit (9-54)

Repeat: Legally mandated training.

Transferable: Not transferable. Not degree applicable.

Courses *(continued)*

Association's Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care at the healthcare provider level; and possess a current EMT certificate or NREMT-Basic registration; or possess a current AEMT certificate in the State of California; or be currently registered as an EMT I

Recommended: One year full-time experience working on an ambulance as an EMT

Description: The Paramedic Preparatory Course is designed to aid in the transition from the level of emergency medical technician (EMT) to the level of paramedic student. The course is designed to prepare the student for the rigorous intensity of the paramedic program and introduce the student to the study skills necessary to be successful in the Bakersfield College's paramedic program. Other topics included in this course will be reviewing of the basic life support skills (BLS) learned in the EMT course, as well as introducing the student to basic advanced life support (ALS) topics, such as electrocardiogram (ECG) rhythms, pathophysiology, pharmacology, and advanced airway maintenance.

Hours: 27 lecture

Transferable: Not transferable. Not degree applicable

ENGL - English Courses

ENGL B1AC Expository Composition Support

0.5 units

Description: This course offers intensive practice in the skills needed to read college-level texts and compose college-level essays. It provides support in developing skills and strategies for success in transfer-level writing classes. Students enrolling in this course must also enroll in ENGL B1A.

Hours: 27 lab

Transferable: Not transferable. Not degree applicable.

ENGL B25B Survey of World Literature

3 units

Prerequisites: BC placement into writing level 06 or successful completion of ENGL B50 or equivalent with a grade of C or better.

Recommended: Successful completion of ENGL B1A with a grade of C or better.

Description: A study of representative works of world literature in historical and cultural contexts, focusing on their aesthetic significance and the enduring human values which unite the different literary traditions. Covers approximately 1650 to present. Not open to students who have completed ENGL B20B.

Hours: 54 lecture

C-ID: ENGL 145

Transferable: CSU and private colleges. CSU GE C.2; BC GE C.2

FIRE - Fire Technology Courses

FIRE B48WE Work Experience Education/Internship

1-8 units

Prerequisites: Declared major or occupational goal and evaluation

of student's qualifications and objectives.

Description: College credit for fire related learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student.

Occupational work experience credit may accrue at the rate of 1 to 8 units per semester for a total of sixteen units, and students must work 75 paid ours or 60 non-paid hours per unit. Repetition allowed per Title 5 55253.

Hours: Non-paid 60 hours for each 1 unit (60-480). Paid 75 hours for each 1 unit (75-600).

Transferable: CSU and private colleges.

INDR - Industrial Drawing Courses

INDR B20A Computer Aided Drafting & Design (CAD) - Intermediate

3 units

Prerequisites: Successful completion of INDR B12 with a grade of C or better or equivalent experience to be evaluated by the instructor.

Description: This is an intermediate-level CAD course that is structured to impart the foundational knowledge and essential technical skills required to succeed as an entry-level CAD drafter/modeler. Areas of special emphasis include industry standards, drawing conventions, and operational practices typical to the industrial design, architectural drafting, and engineering support fields.

Materials Fee: \$10.00

Hours: 27 lecture, 81 lab

Transferable: CSU, UC, and private colleges

MFGT - Manufacturing/Machine Technology Courses

MFGT B54 Power Metalworking Operations

3 units

Prerequisite: Successful completion of MFGT B1AB and WELD B54B with a grade of C or better.

Description: This course is designed for people working in or aspiring to enter the metalworking trades in the fields of construction Fabrication and manufacturing. This is a comprehensive course in powered sheet metal fabrication equipment. The course will cover the safe set up and operation of press brakes, ironworkers, turret punch, rotary machines, welders, shears, roll-formers, tube benders, and tube notchers. Individualized hands-on experience in tool setup and job shop performance equal to industry standards will be provided. Students will also be introduced to the materials and fabrication techniques necessary to build projects of sheet metal aimed at emerging "green energy", agriculture & food processing fields

Hours: 27 Lecture, 81 Lab

Transferable: Not transferable. Degree applicable.