

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT



Santiago Canyon College
8045 E. Chapman Ave.
Orange, CA 92869



Santa Ana College
1530 W. 17th Street
Santa Ana, CA 92706

ARTICULATION AGREEMENT

College: <u>Santa Ana College</u> Contact: <u>Jeff Ash/Don Mahany/John Kalko</u> Phone: <u>(714) 564-6402</u> FAX #: <u>(714) 564-6850</u>	Secondary Partner: <u>Coastline ROP</u> Address: <u>1001 Presidio Square, Costa Mesa, 92626</u> Contact: <u>Merry Kim</u> Phone: <u>(714) 429-2242</u> FAX #: <u>(714) 557-6812</u>
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RSCCD Course <u>FIRE TECHNOLOGY 101</u>	High School / ROP Course <u>FIRE SCIENCE 101</u>
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Articulation Agreement Effective Dates

2013 - 2014	2014 - 2015	2015 - 2016
<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, RSCCD Instructor </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Jeff Ash </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> 3/13/2013 </div> <div style="text-align: left; border-bottom: 1px solid black;"> Date </div>	<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, RSCCD Instructor </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Date </div>	<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, RSCCD Instructor </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Date </div>
<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, RSCCD Division Dean </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Simon B. Hoffman </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> 3/13/13 </div> <div style="text-align: left; border-bottom: 1px solid black;"> Date </div>	<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, RSCCD Division Dean </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Date </div>	<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, RSCCD Division Dean </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Date </div>
<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, HS/ROP Instructor </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Jeno Gillia </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> 3-13-13 </div> <div style="text-align: left; border-bottom: 1px solid black;"> Date </div>	<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, HS/ROP Instructor </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Date </div>	<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, HS/ROP Instructor </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Date </div>
<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, HS/ROP Administrator (Articulation) </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Merry Kim </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> 3-14-13 </div> <div style="text-align: left; border-bottom: 1px solid black;"> Date </div>	<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, HS/ROP Administrator </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Date </div>	<div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Signature, HS/ROP Administrator </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Print Name </div> <div style="text-align: left; border-bottom: 1px solid black; margin-bottom: 5px;"> Date </div>

NAME OF STATEWIDE ACADEMIC SENATE TEMPLATE FOLLOWS:

#	TITLE:
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College Course Title Fire Technology	HS/ROP Course Title Fire Science 101
Course #: 101	Course #: 101
General Course Description Survey of career opportunities in fire service and related fields, history of fire protection; fire loss analysis; public, quasi-public and private fire protection services; specific fire protection functions; fire chemistry and physics.	General Course Description This class provides an overview of Fire Science. Individuals interested in a career as a firefighter or firefighter/paramedic will learn various aspects of the industry. Fire Science 101 articulates with Santa Ana College's Fire Technology 101 for 3 college credits. Topics of instruction will include; fire education and the selection process, fire protection career opportunities, fire department resources and administration, and fire department facilities and equipment.
College Units: 3 units	HS/ROP Hours: 96 – (46 posted)
College Prerequisite(s): None	HS/ROP Prerequisite(s): None
College Advisories/Recommendations: N/A	HS/ROP Advisories/Recommendations: N/A

REQUIRED CONTENT FOR ARTICULATION

FIRE SERVICE HISTORY - 3 Lec

Origins of the fire service, technological development in fire suppression equipment and techniques, notable historical figures.

CAREER OPPORTUNITIES IN FIRE PROTECTION - 3 Lec

Course overview, history of fire service, development of paid fire department, development of insurance companies, modern methods of prevention and control, fire protection and defense. Careers in: fire protection, public education, sprinkler installation, private and public fire service firefighting, fire apparatus operation, paramedic service.

FIRE SAFETY FOR PEOPLE AND PROPERTY - 3 Lec

Life and property loss; fundamental building design, life safety codes, hazards occupancies, types of occupancies, industrial fire protection, public education and community relations.

CHARACTERISTICS AND BEHAVIOR OF FIRE - 3 Lec

Unpredictability of fire, sources of ignition, explosions, products of combustion.

FIRE HAZARDS OF MATERIALS - 3 Lec

Types of combustibles, solids, liquids, hazardous materials, flammable gases fire fighting and control.

INVESTIGATING THE FIRE LOSS PROBLEM - 3 Lec

Need for investigation, recording the fire problem, analyzing fire losses.

FIRE SAFE BUILDING DESIGN CONSTRUCTION - 3 Lec

Fundamentals of fire safety design, building and site planning for fire safety, exposure protection, confinement of smoke and fire.

MID TERM - 3 Lec

Evaluate the learning process for above topics.

FIRE PROTECTION SYSTEMS AND EQUIPMENT - 3 Lec

Water as an extinguishing agent, sprinkler systems, foam extinguishing system carbon dioxide systems, dry chemical systems, extinguishing systems for combustible metal, portable fire extinguishers.

ALARM DETECTION SYSTEMS AND DEVICES - 3 Lec

Public fire service communications, automatic and manual protective signaling devices, fire detection mechanisms and devices.

MUTUAL FIRE DEFENSES - 3 Lec

Evaluation and planning of public fire protection, master planning for fire protection, water for fire protection, water distribution systems.

FIRE DEPARTMENT ORGANIZATION, ADMINISTRATION AND OPERATION - 3 Lec

Fire department organization, administration and management, fire suppression operations, fire prevention operations, public education, fire code enforcement.

FIRE PROTECTION ORGANIZATION INFORMATION SOURCES AND CAREER OPPORTUNITIES, THE SCOPE OF FIRE PROTECTION ORGANIZATIONS - 3 Lec

Various organizations that effect fire department operations from federal, state, county and local jurisdictions.

CODES AND STANDARDS - 3 Lec

Development of fire protection regulations, formation and types of codes and standards, fire safety standards making organizations. The National Professional Qualifications system established by the Joint Council of National Fire Service Organizations including 101, 102, 1021, 1031, 1041, etc.

ESTABLISHMENT OF NATIONAL STANDARDS OF PROFESSIONAL COMPETENCE FOR THE FIRE SERVICE - 1 Lec

Physical ability for firefighters, preparing for physical ability, the meaning of physical fitness, measuring physical fitness.

FINAL - 3 Lec

A comprehensive evaluation of learning process.

INITIALS

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Student Learning Outcomes;

- Students will be able to recognize the initial operations of a multi-casualty incident.
- Students will be able to recognize and discuss the initial operations of a hazardous materials incident.
- Students will demonstrate their ability to recognize the hazards associated with a wild-land fire incident.
- Students will be able to recognize the common causes of injuries to firefighters during emergency incidents.
- Students will be able to recognize the Chain of command in the fire service.
- Students will be able to explain the differences between Class A,B C and D type fires

COMPETENCIES AND SKILL REQUIREMENTS REQUIRED FOR ARTICULATION

(Use additional pages as necessary) Where appropriate, please incorporate standards being used (e.g. CTE standards). At the conclusion of this course, the student should be able to:

- Demonstrate awareness of industry standards, including those for sanitation.
- Compare the sources of training available between a fire department, county and state agencies and the post secondary educational system.
- Determine the origin, process and impact of a residential fire; identify burns; explain toxicity of smoke.
- Demonstrate the ability to discuss all aspects of safety and safety procedures utilized by fire fighters.
- Demonstrate the procedures for reporting a fire and receiving an alarm.
- Understand the importance of education programs and community support; visit a local facility.
- Discuss the history of fire service listing fires that have national and international interest.
- Describe the oral, written, physical and physical agility testing exams for the fire service.
- Describe the chain of command within the fire department; and pre-incident planning procedures.
- Discuss the roles of first responders, EMTs, and paramedics; compare their scopes of practice.
- Describe the various fire service facilities and the functions of firefighting equipment.
- Describe the makeup and dynamics of a wild land fire; define wild land interface.
- Describe procedures for handling hazardous materials and for Standard Precautions.
- Define Class A and Class B fires; explain the portable extinguisher rating system.
- Describe the mental and physical fitness requirements a fire fighter must maintain.

MEASUREMENT METHODS

(Includes any industry certification or licensure):

Projects
Tests/Quizzes
Presentations
Practice Demonstrations
Performance evaluations by instructor and site supervisor
Group activities
Written assignments

A Certificate of Completion is issued to students who successfully complete the course and meet the student competencies.

TEXTBOOKS OR OTHER SUPPORT MATERIALS (Including Software):

College	High School / ROP
Klinoff. <i>Introduction to Fire Protection</i> , 3 rd ed. Delmar Cengage Learning, 2006, ISBN: n/a \$96.90 IFTA Essentials 4 th Edition	Introduction to Fire Protection 3 rd Edition Delmar Cengage Learning ISBN 10-1-4180-01775

COMMENTS:

College	High School / ROP

INITIALS

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