

Course Outline

COURSE: JFT 7C **DIVISION:** 50 **ALSO LISTED AS:**

TERM EFFECTIVE: Fall 2020 **CURRICULUM APPROVAL DATE:** 04/14/2020

SHORT TITLE: AERIAL TILLER TRUCK OPERATION

LONG TITLE: Fire Driver, Operator Aerial, Tiller Truck Operations

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
1	18	Lecture:	.66	11.88
		Lab:	1.55	27.9
		Other:	0	0
		Total:	2.21	39.78

COURSE DESCRIPTION:

This course is for students responsible for operating fire apparatus equipped with an tiller apparatus. Topics include inspecting, maintaining, and testing of tiller devices. Practical application requires driving an tiller apparatus including tiller operations, positioning and stabilizing the apparatus, and operating the tiller device. Pre-requisite JFT 225 or JFT 8 ADVISORY: JFT 7A and JFT 7B.

PREREQUISITES:

Completion of JFT 225, as UG, with a grade of C or better.

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES

P - Pass/No Pass

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

02 - Lecture and/or discussion

03 - Lecture/Laboratory

04 - Laboratory/Studio/Activity

STUDENT LEARNING OUTCOMES:

By the end of this course, a student should:

1. Recognize standards, and related laws for tiller fire apparatus as detailed in State Fire Training Curriculum.
2. Demonstrate students driving skills with tiller during simulated driving conditions

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS

Curriculum Approval Date: 04/14/2020

Both lecture and lab have been combined for hands-on training

Content: Unit I (2 hours)

A. Introduction

1. Orientation and Administration
2. Tiller Apparatus Certification Process

Content: Unit 2 (10 hours)

A. Operations

1. Perform Practical Driving Exercises (i.e. Serpentine, Cul-de-sac Turnaround, Parking, and Clearance)

a. Principles of Operations

b. Operators responsibility

c. Methods of Communication

d. General Steering Reactions

e. Limitations

f. Avoiding Obstacles

2. Operate a Tiller Apparatus

a. Effects on tiller control during night driving

b. Operation of communication systems

c. Operation of restraint devices

d. Maintain control while accelerating, decelerating, and turning

e. Operation during non-emergency conditions

f. Operation under adverse weather and driving surface conditions

3. Position and Stabilize a Tiller Apparatus

a. Principles of positioning and stabilizing

b. Correct positioning for the tiller

c. Maneuvering

d. Avoiding obstacles

Content: Unit I (1 hour)

A. Introduction

1. Orientation and Administration

2. Tiller Apparatus Certification Process

Content: Unit 2 (28 hours)

A. Operations

1. Perform Practical Driving Exercises (i.e. Serpentine, Cul-de-sac Turnaround, Parking, and Clearance)

a. Principles of Operations

b. Operators responsibility

c. Methods of Communication

d. General Steering Reactions

e. Limitations

f. Avoiding Obstacles

2. Operate a Tillered Apparatus
 - a. Effects on tiller control during night driving
 - b. Operation of communication systems
 - c. Operation of restraint devices
 - d. Maintain control while accelerating, decelerating, and turning
 - e. Operation during non-emergency conditions
 - f. Operation under adverse weather and driving surface conditions
3. Position and Stabilize a Tillered Apparatus
 - a. Principles of positioning and stabilizing
 - b. Correct positioning for the tiller
 - c. Maneuvering
 - d. Avoiding obstacles

METHODS OF INSTRUCTION:

Skills Demonstration, Lecture, Scenario Training

OUT OF CLASS ASSIGNMENTS:

Required Outside Hours:

Assignment Description: Reading and handouts to perform skills demonstration of Serpentine, Cul-de-sac, parking, and stabilizing tillered apparatus.

METHODS OF EVALUATION:

Skill demonstrations

Percent of total grade: 60.00 %

Operate the aerial device maneuvering it from each control station given an incident location and deploy and operate an elevated master stream and flow the desired amount of water to an incident, to be evaluated by instructor using state fire training standards

Objective examinations

Percent of total grade: 40.00 %

State Fire Training Written exam

REPRESENTATIVE TEXTBOOKS:

International Association of Fire Chiefs. Fire Apparatus Driver/Operator (Second Edition). California : Jones & Bartlett,2018.

ISBN: 9781284026917

Reading Level of Text, Grade: 12th

NFPA. NFPA 1002 current edition . 2017.

ISBN: 9781455915927

Reading Level of Text, Grade: 12th

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 201470

UC TRANSFER:

Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: Y

Noncredit Category: Y

Cooperative Education:

Program Status: 2 Stand-alone

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department:

CSU Crosswalk Course Number:

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: C

Maximum Hours: 1

Minimum Hours: 1

Course Control Number: CCC000554692

Sports/Physical Education Course: N

Taxonomy of Program: 213300