# vZLA Training Syllabus: Terminal Control 1

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**1. PURPOSE**

The purpose of the Training Syllabus is to provide ZLA training staff an outline of expectations for students, and the minimum criteria for satisfactory performance and certification.

**2. DISTRIBUTION**

Training Syllabi are for use by the ZLA training staff, and are open source to our students as a reference of expectations. For students, this syllabus is an outline of absolute minimum requirements, and is in no way a ticket to certification. Certification minima are ultimately determined by the mentor / instructor, and any shortcomings of the student, as determined by the training staff-member, are grounds for additional training and/or withholding endorsement.

**3. PREREQUISITES**

The prerequisites for TC1 training are outlined in the ZLA Training Summary. The student must hold a minimum VATSIM S2 and have completed the LC2 certification.

**4. SESSION PREPARATION**

1. This training should be conducted on SCT Area 5: reference the ZLA Training Summary
1. Students should:
    a. Arrive at session with CRC set up by student preference. Students are required to have the following displays open:
        i. STARS display (Position SCT Area 5)
        ii. ASDE-X (SAN)
    b. Students are recommended, but not required to have the following displays active:
        i. Tower Cab Mode (SAN and/or Satellites)
    c. Review the following Documentation:
        i. Initial Altitude Assignments Policy
        ii. IFR Release SOP
        iii. VFR Operations SOP
        iv. Diverse Vector Areas Policy
        v. SoCal TRACON - Combined SOP
        vi. SoCal TRACON Area 5 - San Diego SOP
        vii. Relevant (San Diego) sections of Los Angeles ARTCC (ZLA) - Southern California TRACON (SCT) LOA
        viii. Controllers are responsible for compliance with relevant SOPs / LOAs in syllabi for previously completed certifications

**5. KNOWLEDGE REQUIREMENTS**

1. Demonstrate knowledge and application of the following **separation minima**:
    a. STARS/Fusion IFR lateral and vertical separation minima
    b. Terminal wake turbulence separation
    c. Understand ‘lowest usable flight level’ concept

2. Airspace / Geography Familiarization
    **a.** Identify lateral and vertical boundaries of position airspace
    b. Identify adjacent Local Control, Terminal, and Enroute airspace boundaries
3. Departures
    a. Identify and employ use of Primary Radar Identification Methods
    b. Identify and employ use of Beacon Radar Identification Methods
    c. Identify requirements for Mode C Altitude Confirmation
    d. Use of Diverse Vector Areas (DVA)
    e. Issuance of IFR Clearance from uncontrolled airfields
        i. Emphasis on route to be flown & departure / altitude compliance
4. Enroute
    a. Identify and employ use of minimum IFR altitudes to include:
        i. Airway / Procedure Minimum Enroute Altitude (MEA)
        ii. Minimum Vectoring Altitude (MVA)
5. Arrivals
    a. STARs
        i. Understand merge points on applicable STARs and use of speed control for separation
    b. Radar Approaches
        i. Vectoring
        ii. Final approach course interception
        iii. Altitude requirements for radar vectored and full approaches
    c. Speed Control
        i. Basic speed control for traffic & terrain separation
6. Traffic Management Unit (TMU) Topics
    a. Basic metering to enroute environment
7. Facility Coordination
    a. Make appropriate pointouts to adjacent facilities when necessary
    b. Understand IFR releases from the perspective of the radar departure controller