## APPLICATION FOR OSHPD PREAPPROVED LABORATORY (OPL)

| For Office Use Only | |
| --- | --- |
| Application # | OPL-0007-14 |

| Name of Approved Agency/Laboratory | City | County | State |
| --- | --- | --- | --- |
| Construction Testing and Engineering, | Escondido | San Diego | CA |

### APPLICATION TYPE / FEE

| Application is based on: | New Application Fee (Fees are Nonrefundable) | Renewal Fee (Fees are Nonrefundable) |
| --- | --- | --- |
| ☐ DSA-LEA Approved Only | ☐ $250.00 | ☐ $250.00 |
| ☐ Accreditation Only | ☐ $500.00 | ☐ $250.00 |
| ☒ Both DSA-LEA Approved and Accreditation | ☐ $500.00 | ☒ $250.00 |

### APPLICANT INFORMATION

| Applicant Name DANIEL MATH | Signature | Position in the Organization Vice President, Principal Engineer |
| --- | --- | --- |
| Agency/Laboratory Name Construction Testing and Engineering, Inc. | | Application Date 5/9/2016 |
| Phone Number (760) 746-4955 | | E-Mail Dan@cte-inc.net |

Address of Facility Location  *(Each facility location requires separate application.)*

Street
1441 Montiel Road, Suite 115

| City: Escondido | County San Diego | State: CA | Zip Code: 92026 |
| --- | --- | --- | --- |

Facility Mailing Address *(If different from facility address above.)*
Same as above

Street

| City: | | State: | Zip Code: |
| --- | --- | --- | --- |

### KEY PERSONNEL    *(Attach additional pages if needed.)*

| Engineering Manager *(or equivalent)* – Name *Daniel Math* | CA Registration Number RCE 61013/GE 2665 | Expiration Date 12/31/3016 |
| --- | --- | --- |
| Title in the Organization Principal Engineer – Engineering Manager | Phone Number (760) 746-4955 | |
| FAX Number (760) 746-9806 | E-Mail Dan@cte-inc.net | |
| Alternate to Engineering Manager *(if any)* – Name Thomas Gaeto | CA Registration Number CE 40182 | Expiration Date Sept. 30, 2016 |
| Title in the Organization President – Operations Manager | Phone Number (760) 746-4955 | |
| FAX Number (760) 746-9806 | E-mail Tom@cte-inc.net | |
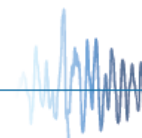
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## KEY PERSONNEL   *(Attach additional pages if needed.)*

| Laboratory Supervisor – Name<br>Erik Campbell | CA Registration Number *(if any)*<br>N/A | Expiration Date |
|---|---|---|
| Title in the Organization<br>Lab Supervisor/Manager | Phone Number<br>(760) 746-4955 | |
| FAX Number<br>(760) 746-9806 | E-Mail<br>erik@cte-inc.net | |
| Field Supervisor -- Name<br>Greg Azlin | CA Registration Number *(if any)*<br>N/A | Expiration Date |
| Title in the Organization<br>Field Inspection Supervisor | Phone Number<br>(760) 746-4955 | |
| FAX Number<br>(760) 746-9806 | E-mail<br>gazlin@cte-inc.net | |

## ACCREDITATION

This laboratory currently holds accreditation by:   *(Attach a copy of current accreditation details.)*

- ☒ AASHTO Accreditation Program (AAP)
- ☐ National Voluntary Laboratory Accreditation Program (NVLAP)
- ☐ International Accreditation Service (IAS)
- ☐ American Association of Laboratories Program (A2LA)
- ☐ Laboratory Accreditation Program (LAB)
- ☐ Construction Materials Engineering Council (CMEC)
- ☐ Other _____

Latest Expiration Date *(if any)* _____

Is this laboratory accepted in the Division of the State Architect Laboratory Evaluation and Acceptance Program, DSA-LEA?   ☐ No   ☒ Yes   Expiration Date: __**2/5/2020**_____

Basis for accreditation:

- ☐ ISO/IEC 17025: General requirements for competence of testing and calibration laboratories
- ☐ NISTIR 7012: Technical requirements for construction materials testing
- ☒ AASHTO R18:  Standard Recommended Practice for Establishing and Implementing a Quality System for Construction Materials Testing Laboratories
- ☒ ASTM E 329:  Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction
- ☒ ASTM C 1077:  Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation
- ☒ ASTM D 3666:  Specification for Minimum Requirements for Agencies Testing and Inspecting Bituminous Paving Materials
- ☒ ASTM D 3740:  Practice for Evaluation of Agencies Engaged in Testing and/or Inspections of Soils and Rock as Used Engineering Design and Construction
- ☒ ASTM C 1093:  Practice for Accreditation of Testing Agencies for Unit Masonry
- ☐ ASTM E 1212:  Practice for Quality Management Systems for *Nondestructive Testing (NDT)* Agencies
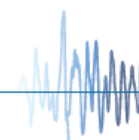- ☐ ASTM E 543:  Specification for Agencies Performing *Nondestructive Testing (NDT)*
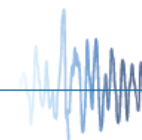
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## STANDARDS

*By checking "yes" in Tables 1 through 6 below, the applicant verifies that the laboratory has the equipment and qualified personnel to perform the indicated testing.* **ONLY mark tests that are listed in accreditation certificate or DSA-LEA.**
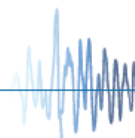
| 1 | | | | SOILS AND FOUNDATIONS | | | |
|---|---|---|---|---|---|---|---|

### Tests

| Yes | | Standard | Test Procedure | Yes | | Standard | Test Procedure |
|---|---|---|---|---|---|---|---|
| ☒ | a. | ASTM D 2487 | Classification of Soils | ☒ | b. | ASTM D 422 | Particle Size Analysts |
| ☒ | c. | ASTM D 2216 | Moisture Content | ☒ | d. | ASTM D 4318 | Liquid / Plastic Limit |
| ☐ | e. | ASTM D 2850 | Unconsolidated, Undrained Triaxial | ☐ | f. | ASTM D 4767 | Triaxial Compression |
| ☐ | g. | ASTM D 2166 | Unconfined Compressive Strength | ☐ | h. | ASTM D 7012 | Triaxial Compressive Strength of Rock Core Specimens |
| ☐ | i. | ASTM D 5778 | Friction Cone and Pizocone Penetration Test | ☐ | j. | ASTM D 3441 | Cone Penetration Test (CPT) |
| ☒ | k. | ASTM D 1140 | No. 200 Wash | ☒ | l. | ASTM D 4829 | Expansion Index |
| ☒ | m. | ASTM D 2419 | Sand Equivalent Value | ☒ | n. | ASTM D 1557 | Soil Compaction – Modified |
| ☐ | o. | ASTM D 3080 | Direct Shear | ☒ | p. | ASTM D 6938 | Density of Soils – Nuclear Gage |
| ☒ | q. | ASTM D 1556 | Density of Soils – Sand Cone | ☐ | r. | ASTM D 1143 | Deep Foundations – Static Compression |
| ☐ | s. | ASTM D 4945 | Deep Foundations – Dynamic Testing | ☐ | t. | ASTM D 3689 | Deep Foundations – Axial Tension |
| ☐ | u. | ASTM D 3966 | Deep Foundations –Lateral Loads | | | | |
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*Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.*

| Yes | | Standard | Test Procedure | Yes | | Standard | Test Procedure |
|---|---|---|---|---|---|---|---|
| ☒ | aa. | AASHTO T236 | Direct Shear | ☐ | bb. | | |
| ☐ | cc. | | | ☐ | dd. | | |
| ☐ | ee. | | | ☐ | ff. | | |

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| 2 | | | | CONCRETE | | | |
|---|---|---|---|---|---|---|---|

**Tests**

| Yes | | Standard | Test Procedure | Yes | | Standard | Test Procedure |
|---|---|---|---|---|---|---|---|
| ☐ | a. | ASTM D 75 | Sampling Aggregate | ☒ | b. | ASTM C 702 | Reducing Aggregate Samples |
| ☒ | c. | ASTM C 40 | Organic Impurities | ☐ | d. | ASTM C 29 | Unit Weight / Voids |
| ☐ | e. | ASTM C 88 | Sodium Sulfate Soundness | ☒ | f. | ASTM C 566 | Moisture Content |
| ☐ | g. | ASTM C 142 | Clay / Friable Particles | ☒ | h. | ASTM C 127 | Specific Gravity - Coarse |
| ☒ | i. | ASTM C 128 | Specific Gravity - Fine | ☒ | j. | ASTM C 117 | No. 200 Wash |
| ☒ | k. | ASTM C 136 | Sieve Analysis Course / Fine | ☒ | l. | ASTM C 131 | Degradation of Aggregate |
| ☐ | m. | ASTM 2419 | Sand Equivalent Value | ☒ | n. | ASTM C 31, C 172, CBC 1905A.1.2 | Concrete Sampling - Field |
| ☒ | o. | ASTM C 192 | Making / Curing Specimens - Lab | ☒ | p. | ASTM C 173 | Air Content (V) |
| ☐ | q. | ASTM C 1602 | Water | ☒ | r. | ASTM C 1604 | Shotcrete Core |
| ☐ | s. | ACI 355.2 | Mechanical Anchors | ☒ | t. | ASTM C 231 | Air Content (P) |
| ☒ | u. | ASTM C 143 | Slump | ☒ | v. | ASTM C 1064 | Temperature |
| ☒ | w. | ASTM C 617 | Capping Concrete Specimens | ☒ | x. | ASTM C 1231 | Unbonded Caps |
| ☒ | y. | ASTM C 39 | Compressive Strength | ☐ | z. | ASTM C 157 | Length Change |
| ☒ | aa. | ASTM C 78 | Flexural Strength | ☒ | bb. | ASTM C 496 | Splitting Tensile |
| ☒ | cc. | ASTM C 42 | Drilled Cores / Beams | ☒ | dd. | ASTM C 138 | Weight / Yield / Air Content |
| ☐ | ee. | ASTM C 495 | Lightweight Concrete | ☐ | ff. | ASTM C 567 | Density of Lightweight Aggregate |
| ☐ | gg. | ASTM E 488 | Strength of Anchors | ☐ | hh. | ACI 355.4 | Adhesive Anchors |
| ☐ | ii. | ACI 374.1 | Moment Frames | ☐ | jj. | ASTM C 1260 | Alkali Reactivity of Aggregate |
| ☐ | kk. | ASTM C 1293 | Length Change due to Alkali-Silica Reaction | ☐ | ll. | ACI ITG-5.1 | Post-Tensioned Precast Special Walls |
| ☒ | mm. | ASTM C 42 | Concrete Core | ☐ | nn. | ASTM D 3039 | Tensile Strength of FRP |
| ☐ | oo. | ASTM D 4541 | Pull of Strength of FRP | ☐ | pp. | ASTM A 1034 | Rebar Mechanical Splices |
| ☐ | | | | | | | |
| ☐ | | | | | | | |

*Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.*

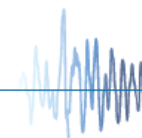| Yes | | Standard | Test Procedure | Yes | | Standard | Test Procedure |
|---|---|---|---|---|---|---|---|
| ☐ | aa. | | | ☐ | bb. | | |
| ☐ | cc. | | | ☐ | dd. | | |
| ☐ | ee. | | | ☐ | ff. | | |

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| 3 | | | **MASONRY** | | | | |
|---|---|---|---|---|---|---|---|
| | | | **Tests** | | | | |
| **Yes** | | **Standard/Code Reference** | **Test Procedure** | **Yes** | | **Standard/Code Reference** | **Test Procedure** |
| ☒ | a. | ASTM C 140 | Dimensions | ☒ | b. | ASTM C 140 | Compressive Strength |
| ☒ | c. | ASTM C 140 | Absorption | ☒ | d. | ASTM C 140 | Unit Weight |
| ☒ | e. | ASTM C 140 | Moisture Content | ☐ | f. | ASTM C 426 | Linear Drying Shrinkage |
| ☒ | g. | CBC 2105A.2.2.1.4 | Mortar Sampling | ☒ | h. | CBC 2105A.2.2.1.4 | Grout Sampling |
| ☒ | i. | ASTM C 1314 | Prism Compressive Strength | ☒ | j. | ASTM C 1019 | Grout Compressive Strength |
| ☒ | k. | ASTM C 780 | Mortar Compressive Strength | ☒ | l. | ASTM C 39 | Core Compressive Strength |
| ☒ | m. | CBC 2105A.4 | Core Shear | ☒ | n. | ASTM C 1314 | Prism Sampling |
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*Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.*

| **Yes** | | **Standard/Code Reference** | **Test Procedure** | **Yes** | | **Standard/Code Reference** | **Test Procedure** |
|---|---|---|---|---|---|---|---|
| ☐ | aa. | | | ☐ | bb. | | |
| ☐ | cc. | | | ☐ | dd. | | |
| ☐ | ee. | | | ☐ | ff. | | |

| 4 | | | **STEEL** | | | | |
|---|---|---|---|---|---|---|---|
| | | | **Tests** | | | | |
| **Yes** | | **Standard/Code Reference** | **Test Procedure** | **Yes** | | **Standard/Code Reference** | **Test Procedure** |
| ☒ | a. | ASTM A 370 | Tension Test | ☒ | b. | ASTM A 370 | Bend |
| ☐ | c. | ASTM E 10 | Brinell Hardness | ☒ | d. | ASTM E 18 | Rockwell Hardness |
| ☐ | e. | ASTM E 190 | Guided Bend | ☐ | f. | ASTM E 23 | Charpy V - Notch |
| ☐ | g. | ASTM A 90 | Weight of Coating | ☐ | h. | AISC 341 Section K2 | Beam to Column Moment & EBF Connections Cyclic Tests |
| ☐ | i. | AISC 341 Section K3 | BRBF Cyclic Tests | ☐ | j. | ASTM E 165 | Liquid Penetrant |
| ☒ | k. | ASTM E 1444 | Magnetic Particle | ☐ | l. | ASTM E 94 | Radiographic |
| ☒ | m. | ASTM E 164 | Ultrasonic | ☒ | n. | ASTM E 605 | Density of SFRM |
| ☐ | o. | CBC 2203A.1 | Material Identification | ☐ | P | ASTM F606 | Bolt Tension Test |
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*Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.*

| **Yes** | | **Standard/Code Reference** | **Test Procedure** | **Yes** | | **Standard/Code Reference** | **Test Procedure** |
|---|---|---|---|---|---|---|---|
| ☐ | aa. | | | ☐ | bb. | | |
| ☐ | cc. | | | ☐ | dd. | | |
| ☐ | ee. | | | ☐ | ff. | | |

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| 5 | | **Wood and Roof Assemblies** | | | |
|---|---|---|---|---|---|---|---|
| | **Tests** | | | | | | |
| **Yes** | | **Standard** | **Test Procedure** | **Yes** | | **Standard** | **Test Procedure** |
| ☐ | a. | ASTM D 3617 | Analysis of Built-Up Roof Systems | ☐ | b. | ASTM D 4442 | Moisture Content of Wood |
| ☐ | c. | ASTM C 67 | Brick and Structural Clay Roof Tiles | | | | |
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| \multicolumn{8}{l}{*Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.*} | | | | | | | |
| ☐ | aa. | | | ☐ | bb. | | |
| ☐ | cc. | | | ☐ | dd. | | |
| ☐ | ee. | | | ☐ | ff. | | |

| 6 | | \multicolumn{4}{c}{**COMPONENT, ASSEMBLY AND PROTOTYPE TESTING**} | | | |
|---|---|---|---|---|---|---|---|
| | **Tests** | | | | | | |
| **Yes** | | **Standard/Code Reference** | **Test Procedure** | **Yes** | | **Standard/Code Reference** | **Test Procedure** |
| ☐ | a. | AAMA 501.4 | Static Test for Curtain Wall and Storefront Systems | ☐ | b. | ICC-ES AC 156 | Shake Table Test |
| ☐ | c. | AAMA 501.6 | Dynamic Test for Curtain Wall and Storefront Systems | ☐ | d. | FM 1950 | Seismic Sway Brace Testing |
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| \multicolumn{8}{l}{*Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.*} | | | | | | | |
| ☐ | aa. | | | ☐ | bb. | | |
| ☐ | cc. | | | ☐ | dd. | | |
| ☐ | ee. | | | ☐ | ff. | | |

*"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"*

**OSHPD**

| Yes | List of Attachments Supporting the Testing Agency/Laboratory Approval (Submit Each Attachment as Separate PDF) |
|---|---|
| | **Enclosure Type** |
| ☒ | OSHPD Facilities Development Division (FDD) Payment Form (OSH-AD-367): http://www.oshpd.ca.gov/FDD/Forms/eSPForms/OSH-AD_367%20Facilities%20Development%20Division%20Payment%20Form.pdf |
| ☒ | DSA-LEA Laboratory Qualification as posted at DSA website: https://www.apps.dgs.ca.gov/tracker/ApprovedLabs.aspx |
| ☒ | Latest Copy of DSA 100: LEA Program Application as Submitted to DSA |
| ☒ | Latest copy of DSA 220: LEA Program On-Site Assessment Report |
| ☒ | Latest copy of DSA acceptance (letter) of the Lab. into the LEA program. |
| ☒ | Current Accreditation Certificate(s) including List of Tests for which Laboratory is Accredited |
| ☐ | Other (Please Specify): |

## OSHPD Approval          (For Office Use Only)
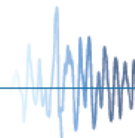
Signature:

Approval Date:    06/15/2016

Print Name:    James C. Pan

Approval Expiration Date:    02/05/2020

Title:    District Structural Engineer

Condition of approval *(if applicable)*:

# INSTRUCTIONS FOR APPLYING TO THE
# OSHPD PREAPPROVED LABORATORY (OPL) PROGRAM

## Required Prior Approval or Accreditation

Prior to providing structural testing services on OSHPD projects a laboratory shall have either:

- Approval in the OSHPD Preapproved Laboratory (OPL) Program; or

- Evidence of laboratory's accreditation or acceptance in DSA-LEA program as, described in OSHPD Policy Intent Notice (PIN) 58 - *Approved Testing Agency/Laboratory for Structural Tests*, shall be submitted on a project-by-project basis.

## Application

To apply for acceptance in the OPL Program, this application (**in Microsoft Word format with signature embedded**) along with all supporting documents shall be submitted to: OPL@OSHPD.CA.GOV by e-mail or equivalent. **No hard copy application shall be accepted.**

## Acceptance

To be considered for acceptance in the OPL Program, a complete submittal shall include the applicable items listed below. OSHPD reserves the right to reject incomplete submissions.
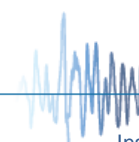
## Approval

Approval shall be valid for up to six years, but not exceeding the approval expiration date by California Division of State Architect (DSA) Laboratory Evaluation and Acceptance (LEA) or accreditation bodies, as applicable.

## Adverse Action or Removal of Tests

Any adverse action or removal of tests by accreditation bodies or DSA-LEA shall be a cause for removal of labs or tests from the OPL Program. Duty to inform the OPL Administrator when any such adverse action is taken is the responsibility of the laboratory approved in the OPL Program. Test results from laboratories where an adverse action is taken and the OPL Administrator has not been informed prior to performing the tests will be rejected by OSHPD and additional tests will be required to be performed by the owner. OSHPD will not be responsible for any additional costs incurred by the owner for the additional tests, or recovery of costs by the owner from the offending lab.

In addition, detection of potential anomalies by a lab or change of primary lab personnel that may impact health and safety of OSHPD regulated facilities shall be a cause for removal from OPL Program.

## Verification

In addition to being on the OPL list, the architect or engineer in responsible charge shall verify that an approved agency is independent and acceptable as required by Title 24, Part 1, California Administrative Code (CAC) Section 7-141 on a project-by-project basis. This verification is performed through the project's Testing, Inspection, and Observation (TIO) Program.

## ITEMS REQUIRED

### Application and Fee:

A completed OPL Application Form (OSH-FD OPL 100), necessary supporting documents and the appropriate fee. The fee may be either in the form of a check payable to OSHPD or by credit card (preferred method) using the form at webpage below:

http://oshpd.ca.gov/FDD/Forms/eSPForms/OSH-AD_367%20Facilities%20Development%20Division%20Payment%20Form.pdf

**If the firm has more than one facility or location, which will provide testing services for OSHPD regulated facilities, each location shall submit a separate OPL Application package and fee to be included and listed in the OPL Program.**

An OPL number shall not be assigned until a completed application and application fee is received.

### Supporting Documents:

❖ **Evidence of Laboratory Accreditation:** A copy of current accreditation certificate including scope of accreditation (a listing of tests for which lab is accredited) issued by an accreditation body in accordance with OSHPD PIN 58. Expiration date for accreditation, if any, shall be clearly indicated.

❖ **If application is based on DSA-LEA approval, the following additional documents shall be provided:**
   o Copy of Laboratory Qualification posted at DSA-LEA website
   o Latest copy of submitted DSA-100 application
   o DSA-LEA Program – Latest copy of Lab Assessment Report (DSA 220)
   o Latest copy of DSA Acceptance (letter) of the Lab into the LEA Program.

### Contact:

If you have any questions, comments or suggestions please contact:

James Pan
OPL Program Administrator
Phone: (213) 897- 4073
E-mail: OPL @OSHPD.CA.GOV.
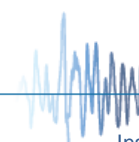
Please see section-by-section application instructions below.

# SECTION-BY-SECTION INSTRUCTIONS

## Application Type / Fee

Indicate the type of application (new or renewal).  Laboratories which are currently accepted in the Division of the State Architect Laboratory Evaluation and Acceptance (DSA-LEA) program are charged $250.00.  Laboratories which are accredited by other entities are charged a $500.00 fee. Facilities that have both DSA-LEA and accreditation are charged $500.00.  Renewal fee is $250.00. **All fees submitted shall be nonrefundable.**

## Applicant information

Enter both the physical and mailing address of the actual testing facility, not the headquarters or administrative facility.

## Key Personnel

Individuals who perform more than one function shall be fully qualified for each role.

**ENGINEERING MANAGER and ALTERNATE** -- Engineering Manager, however named, shall:

- be an employee or owner of the laboratory and working at the facility;
- hold a management position in the company;
- not be employed by any other laboratory that provides testing or special inspection services; and
- have overall responsibility for technical operations and the quality system and its implementation.

**LABORATORY SUPERVISOR** – Laboratory Supervisor(s), however named, shall:

- be an employee of the laboratory;
- be responsible for the daily operation of the materials testing laboratory and supervision of technicians including, but not limited to, their training and oversight of equipment; and
- maintain the skills and training to oversee the activities of the laboratory.

**FIELD SUPERVISOR** – Field Supervisor(s), however named, shall:

- be an employee of the laboratory;
- be responsible for the daily operation of field technicians; and
- be responsible for supervision of field technicians including but not limited to supervision of field sampling, testing, scheduling, training and report review.

## Accreditation

Indicate the name of all applicable accreditation bodies.
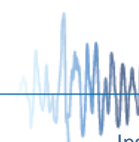
| Standards |
|---|

**List only tests approved through DSA-LEA or accreditation** for which the facility is equipped and has the personnel and expertise (qualifications and/or certifications) to perform.

| OSHPD Approval |
|---|

This section is for office use only.