



ORION
TECHNICAL
COLLEGE

****October 3, 2025****

ADDENDUM

to

2024/2025

Academic
Catalog

***the following
additional pages.***

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The following catalog addendum information is new and is included in the Orion Technical College 2024-2025 Catalog by reference.

TP-HTMLCSS — HTML & CSS Developer — COITB Exam Prep

Delivery: Online

Contact Hours: 30 clock hours (2 weeks)

This professional training course is avocational in nature. It leads to a Certificate of Completion for the clock hours earned and prepares students for the COITB HTML & CSS Developer certification exam. This course is not considered an academic program and does not award academic credit. Hours earned in this course do not transfer to any academic program offered by the College. The course is avocational and does not lead to initial employment, therefore it is not eligible for career services assistance. Students who enroll in this course are not eligible for financial aid.

Course Description

Fast-track preparation for the COITB HTML & CSS Developer exam. Emphasizes semantic HTML, modern CSS layout (Flexbox, Grid), responsive design, accessibility, and hands-on page builds that mirror exam tasks.

Learning Outcomes

- Author accessible, standards-based HTML with semantic structure.
- Apply CSS selectors, cascade/specificity, and the box model to implement robust layouts.
- Build responsive, mobile-first pages using Flexbox and Grid.
- Implement forms, tables, media, and ARIA attributes to meet usability goals.
- Debug layout issues using browser devtools; validate markup and styles.

Major Topics

- HTML5 semantics, forms, tables, media
- CSS fundamentals, cascade, specificity
- Box model, positioning, display, overflow
- Flexbox and Grid responsive patterns
- Typography, variables, units
- Accessibility (labels, landmarks, contrast)
- Performance and validation

Recommended Prerequisites

- Basic computer literacy; no prior coding required.

Assessments and Practice

- Timed build tasks simulating exam items
- Two mock exams with item-level feedback

COITB Domain Mapping

- HTML structure
- CSS selectors and layout



- Forms and validation
- Responsive design
- Accessibility

Schedule

Two weeks of online instruction. Instruction is delivered through a combination of synchronous and asynchronous activities. Students must complete all course requirements within the scheduled time to receive the Certificate of Completion.

Tuition and Fees

Tuition and fees includes all charges directly related to instruction, access to online learning materials, and one attempt at the COITB HTML & CSS Developer certification exam.

Payment

Payment is due upon registration of the course. Accepted forms of payment include credit or debit cards, checks, or cash. Students using a third party for payment, including employers, veterans, or other education sponsors, must have payment processed on the third-party timeline and paid prior to the completion of the training program.

Refund Policy

If a registrant drops before the first day of class, a refund for the training will be processed. Once the training has started, please refer to page 97-98 of the Orion Technical College Catalog. Students using Military Tuition Assistance (TA) funds should refer to page 100 of the Orion Technical College Catalog for the refund policy for clock hour programs.

Military

It is possible that some students in the National Guard and Reserves may be called to active duty. Orion Technical College has policies in accordance with Iowa Code 261.9(1)(g) for students called to active state or federal duty, or for spouses of service members with a dependent child. Options include a full withdrawal with 100% tuition refund, arrangements for incompletes, or partial withdrawals with prorated refunds, depending on the circumstances and agreements made with instructors and the Campus President or Designee.



The following catalog addendum information is new and is included in the Orion Technical College 2024-2025 Catalog by reference.

TP-JS — JavaScript Professional Developer — COITB Exam Prep

Delivery: Online

Contact Hours: 60 clock hours (4 weeks)

This professional training course is avocational in nature. It leads to a Certificate of Completion for the clock hours earned and prepares students for the COITB JavaScript Professional Developer certification exam. This course is not considered an academic program and does not award academic credit. Hours earned in this course do not transfer to any academic program offered by the College. The course is avocational and does not lead to initial employment, therefore it is not eligible for career services assistance. Students who enroll in this course are not eligible for financial aid.

Course Description

Intensive preparation aligned to the COITB JavaScript Professional Developer exam. Focuses on core language features, execution model, and problem-solving patterns used in exam scenarios.

Learning Outcomes

- Write idiomatic ES6+ code using variables, functions, modules, and classes.
- Control program flow and manage state with arrays, objects, and higher-order functions.
- Explain scope, closures, and the event loop; handle errors with try/catch and promises.
- Manipulate the DOM safely and perform async operations with fetch/async-await.
- Solve algorithmic challenges within time constraints using test-driven approaches.

Major Topics

- Types, operators, conditionals, loops
- Functions, scope, closures, modules
- Objects, arrays, iterables, maps/sets
- Asynchrony (promises, async/await), timers, fetch
- DOM APIs and events (light coverage for exam)
- Error handling and debugging

Recommended Prerequisites

- Completion of TP-HTMLCSS or equivalent HTML/CSS literacy.

Assessments and Practice

- Daily coding drills and 3 timed practice sets
- Capstone mock exam with solution review

COITB Domain Mapping

- Syntax and operators
- Control flow
- Functions and scope
- Arrays and objects



- Error handling
- DOM/Async

Schedule

Four weeks of online instruction. Instruction is delivered through a combination of synchronous and asynchronous activities. Students must complete all course requirements within the scheduled time to receive the Certificate of Completion.

Tuition and Fees

Tuition and fees includes all charges directly related to instruction, access to online learning materials, and one attempt at the COITB JavaScript Professional Developer certification exam.

Payment

Payment is due upon registration of the course. Accepted forms of payment include credit or debit cards, checks, or cash. Students using a third party for payment, including employers, veterans, or other education sponsors, must have payment processed on the third-party timeline and paid prior to the completion of the training program.

Refund Policy

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Addendum to the 2024-2025 Catalog

Effective Date: October 3, 2025

The following catalog addendum information is new and is included in the Orion Technical College 2024-2025 Catalog by reference.

TP-MYSQL — MySQL Backend Developer — COITB Exam Prep

Delivery: Online

Contact Hours: 30 clock hours (2 weeks)

This professional training course is avocational in nature. It leads to a Certificate of Completion for the clock hours earned and prepares students for the COITB MySQL Backend Developer certification exam. This course is not considered an academic program and does not award academic credit. Hours earned in this course do not transfer to any academic program offered by the College. The course is avocational and does not lead to initial employment, therefore it is not eligible for career services assistance. Students who enroll in this course are not eligible for financial aid.

Course Description

Targeted preparation for the COITB MySQL Backend Developer exam covering SQL fundamentals through schema design, queries, transactions, and basic administration.

Learning Outcomes

- Model relational data and design normalized schemas with appropriate keys and indexes
- Write SELECT queries with JOIN, GROUP BY, HAVING, and window functions
- Create or alter tables, constraints, and views; manage users and privileges (intro)
- Use transactions, isolation levels, and error handling for reliable data operations
- Diagnose query performance with EXPLAIN and indexing strategies

Major Topics

- Relational modeling and normalization
- DDL, DML, DQL essentials
- JOIN patterns and aggregation
- Transactions and ACID concepts
- Indexes, EXPLAIN, and performance
- Basic security and backups (overview)

Recommended Prerequisites

- Comfort with basic command-line tools and SQL syntax (or TP-JS completion)

Assessments and Practice

- Lab checkpoints using a sample dataset
- Two timed SQL mock exams



COITB Domain Mapping

- MySQL fundamentals
- Data types and DDL/DML
- Joins and aggregation
- Transactions
- Indexing and optimization

Schedule

Two weeks of online instruction. Instruction is delivered through a combination of synchronous and asynchronous activities. Students must complete all course requirements within the scheduled time to receive the Certificate of Completion.

Tuition and Fees

Tuition and fees includes all charges directly related to instruction, access to online learning materials, and one attempt at the COITB MySQL Backend Developer certification exam.

Payment

Payment is due upon registration of the course. Accepted forms of payment include credit or debit cards, checks, or cash. Students using a third party for payment, including employer, veterans, or other education sponsors, must have payment processed on the third-party timeline and paid prior to the completion of the training program.

Refund Policy

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The following catalog addendum information is new and is included in the Orion Technical College 2024-2025 Catalog by reference.

TP-REACT — ReactJS Framework Developer — COITB Exam Prep

Delivery: Online

Contact Hours: 30 clock hours (2 weeks)

This professional training course is avocational in nature. It leads to a Certificate of Completion for the clock hours earned and prepares students for the COITB ReactJS Framework Developer certification exam. This course is not considered an academic program and does not award academic credit. Hours earned in this course do not transfer to any academic program offered by the College. The course is avocational and does not lead to initial employment, therefore it is not eligible for career services assistance. Students who enroll in this course are not eligible for financial aid.

Course Description

This course provides immersive preparation for the COITB ReactJS Framework Developer exam. Learners implement component-based user interfaces, manage state and effects, handle forms and routing, integrate REST APIs, and address accessibility and performance.

Learning Outcomes

- Build reusable components and compose views using props and state
- Use Hooks (useState, useEffect, useMemo, useContext, custom hooks) to manage data and side effects
- Handle forms, events, and conditional rendering, integrate with REST APIs
- Implement client-side routing and accessibility best practices in React
- Optimize rendering and troubleshoot performance and common pitfalls

Major Topics

- React fundamentals, JSX, components
- Hooks and state management patterns
- Routing, forms, controlled inputs
- Data fetching, error and loading states
- Testing fundamentals (concept introduction)
- Performance and accessibility in React

Recommended Prerequisites

- Proficiency with modern JavaScript or completion of TP-JS

Assessments and Practice

- Four hands-on labs mapped to exam tasks
- Two summative mock exams



COITB Domain Mapping

- Components and JSX
- Hooks and state
- Events and forms
- Routing
- Data fetching
- Performance and accessibility

Schedule

Two weeks of online instruction. Instruction is delivered through a combination of synchronous and asynchronous activities. Students must complete all course requirements within the scheduled time to receive the Certificate of Completion.

Tuition and Fees

Tuition and fees includes all charges directly related to instruction, access to online learning materials, and one attempt at the COITB ReactJS Framework Developer certification exam.

Payment

Payment is due upon registration of the course. Accepted forms of payment include credit or debit cards, checks, or cash. Students using a third party for payment, including employers, veterans, or other education sponsors, must have payment processed on the third-party timeline and paid prior to the completion of the training program.

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The following catalog addendum information is new and is included in the Orion Technical College 2024-2025 Catalog by reference.

TP-TSS — Technical Sales Specialist — Professional Readiness

Delivery: Online

Contact Hours: 30 clock hours (2 weeks)

This professional training course is avocational in nature. It leads to a Certificate of Completion for the clock hours earned and prepares students for readiness in customer-facing technical roles. This course is not considered an academic program and does not award academic credit. Hours earned in this course do not transfer to any academic program offered by the College. The course is avocational and does not lead to initial employment, therefore it is not eligible for career services assistance. Students who enroll in this course are not eligible for financial aid.

Course Description

Skills-focused preparation for customer-facing technical roles (Field Service, Applications Engineering, Technical Account Management). Emphasizes discovery, value mapping, demos, proposals, and objection handling tailored to automation and controls contexts.

Learning Outcomes

- Conduct structured discovery to elicit business and technical requirements.
- Translate features into outcomes using value maps and ROI basics.
- Plan and deliver live demos and proof-of-concepts; handle objections effectively.
- Build concise proposals and follow-up plans aligned to stakeholder needs.
- Collaborate with engineering to scope feasible solutions and handoffs.

Major Topics

- Discovery frameworks (questioning, stakeholder mapping)
- Value articulation (pain points to outcomes, ROI basics)
- Demo design and delivery; sandboxing scenarios
- Proposal structure, pricing options, and pilots/POCs
- Objection handling, negotiation fundamentals
- CRM hygiene and pipeline basics (intro)

Recommended Prerequisites

- Basic computer literacy

Assessments and Practice

- Role-plays with rubric and feedback
- Written proposal and demo plan artifact

Industry Frameworks and Skills Mapping

- SPIN or MEDDIC-style discovery (adapted)
- Value mapping and ROI basics
- Demo and proposal best practices

**Schedule**

Two weeks of online instruction. Instruction is delivered through a combination of synchronous and asynchronous activities. Students must complete all course requirements within the scheduled time to receive the Certificate of Completion.

Tuition and Fees

Tuition and fees includes all charges directly related to instruction and access to online learning materials and one attempt at the COITB certification exam.

Payment

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Test Preparation – Tuition & Fees Schedule

- Technical Sales Specialist – TP-TSS (2 weeks)
 - Tuition \$1,999
 - Testing Fee \$999
 - **Total Cost \$2,998**

- HTML & CSS Developer – TP-HTMLCSS (2 weeks)
 - Tuition \$1,999
 - Testing Fee \$999
 - **Total Cost \$2,998**

- MySQL Backend Developer – TP-MYSQL (2 weeks)
 - Tuition \$1,999
 - Testing Fee \$999
 - **Total Cost \$2,998**

- ReactJS Framework Developer – TP-REACT (2 weeks)
 - Tuition \$1,999
 - Testing Fee \$999
 - **Total Cost \$2,998**

- JavaScript Professional Developer – TP-JS (4 weeks)
 - Tuition \$2,899
 - Testing Fee \$999
 - **Total Cost \$3,898**