



**Docket Item:**

Community College Approval: Portland Community College, Certificate of Completion in Supply Chain Management and Logistics Engineering, within 52.0203 - Logistics and Materials Management.

**Summary:**

Portland Community College proposes a new Certificate of Completion in Supply Chain Management and Logistics Engineering. Higher Education Coordinating Commission (HECC) staff completed a review of the proposed program. After analysis, HECC staff recommends approval of the certificate as proposed.

**Staff Recommendation:**

The HECC recommends the adoption of the following resolution:  
RESOLVED, that the Higher Education Coordinating Commission approve the following degree: Certificate of Completion in Supply Chain Management and Logistics Engineering.



**Portland Community College seeks the Oregon Higher Education Coordinating Commission's approval to offer an instructional program leading to a Certificate of Completion in Supply Chain Management and Logistics Engineering.**

**Program Summary**

Supply Chain Management and Engineering Logistics is the oversight of materials, information, and finances as they move from supplier to manufacturer to wholesaler to retailer to consumer, known as the chain. The field of Supply Chain is witnessing growth and is seeking talent in high tech, analytics, project management, robotics, and engineering specialties. The one-year certificate is designed for individuals interested in employment in the warehousing and distribution industries. Upon completion of the program students will understand the concepts and responsibilities of supply chain, know how to use a variety of engineering logistics tools, and acquire field experience. Program completers will have soft skills critical to the industry including communication, customer service, and problem solving.

**1. *Describe the need for this program by providing clear evidence.***

The development of the Supply Chain Management and Logistics Engineering (SCM) Certificate addresses economic needs in our community and state. Based on the most recent Occupational Outlook Handbook (U.S. Bureau of Labor Statistics), employment of Logisticians is projected to grow 7 percent from 2016 to 2026, about as fast as the average for all occupations. Employment growth will be driven by the need for logistics in the transportation of goods in a global economy.

The performance of the logistical and supply chain process is an important factor in a company's profitability. Companies rely on logisticians to manage the movement of their products and supplies. Supply and distribution systems have become increasingly complex as they continue to try to gain more efficiencies at minimal cost. Employment is expected to grow as companies need more logisticians to move products more efficiently, solve problems, and identify areas for improvement.

The Supply Chain Management and Logistics Engineering Certificate was developed based on the lack of an existing community college program in Portland metro area. With neighborhood universities (Portland State University, Oregon State University, University of Oregon) all having mature Supply Chain Management undergraduate programs, developing the SCM program at PCC will help our students in transition to four-year universities if they decide to pursue higher education within the field.

Workers holding a technical certificate fill entry level positions within Supply Chain Management department. PCC is the only community college in Portland Metro area offering such certificate to serve the community's needs.

Based on the latest Oregon Employment Department employment service, there are currently 499 job openings relating to logistics professions and 398 purchasing related positions open at the state-wide level.

The wage for entry level supply chain management professionals (associate degree/technical certificate with 1-2 years of experiences), including logistician range from \$45,018-\$59,868 annually based on the recent report on Salary.com

2. ***Does the community college utilize systemic methods for meaningful and ongoing involvement of the appropriate constituencies?***

In early 2016, the CTE program - Management and Supervisory Development (MSD) initiated a new Supply Chain Management advisory committee to advise the department of the needs of the new Supply Chain Management and Logistics Engineering Certificate. Representation on this committee is intentionally multi-disciplinary, with individuals representing the logistics field and supply chain management from various industries. Each current advisory member is excited and has been providing active and useful support for the development of this certificate. Faculty led initiatives have been established with transfer universities, such as Portland State University and Oregon State University for curriculum development, joint information sessions, and student to student conversations.

The Supply Chain Management and Logistics Engineering certificate program is within the Management and Supervisory Development Department in alignment with the nature of the profession which requires leadership, technical and non-technical skills, communication, and project management skills.

The MSD Department and SCM certificate faculty provide proactive, positive, and welcoming learning environments for all students regardless of ethnicity, ability, and gender identification. The college has many resources available to students with no cost to them, including Career Exploration Center, Women's Resource Center, Multicultural Center, ESOL, college preparation courses, Tutoring Service at no cost to students in support of student's learning needs.

3. ***Is the community college program aligned with appropriate education, workforce development, and economic development programs?***

*As noted above, the advisory member committee is comprised of stakeholders from across the Portland-Metro area, including professionals from Nike, UPS, Peace Health, and Lam Research whose organizations demonstrate high quality supply chain & logistics models.*

*The Supply Chain Management and Logistics Engineering program supports workforce and economic development initiatives for the community and beyond. The program was developed with industry guidance so that the outcomes of the curriculum are aligned with industry needs. The program prepares students to transfer smoothly from student to employee and provide a base of knowledge for those pursuing Bachelor degrees with nearby Universities. Should the students want to continue their studies and earn a Bachelor's degree in Supply Chain Management and Logistics Engineering they may transfer to Portland State University, Oregon State University, University of Oregon, or Washington State University, Vancouver. These Universities offer advanced coursework in this specialized area.*

*The program is aligned with State of Oregon Technical Skill Assessment requirements under Manufacturing and Logistics categories. The curriculum was developed following these guidelines in the context to provide students with knowledge and skills for employment.*

*Furthermore, the program was also developed to promote students with global mindset, creative thinking and intercultural communication in alignment with PCC college outcomes.*

*The certificate program is aligned with PCC College Core Outcomes (CO). Our graduates are prepared to contribute to building organizational value by developing, leading, and motivating diverse team to seek innovative solutions (CO: Communication, Critical Thinking, Cultural Awareness, Professional Competence, and Self-Reflection). Graduates will be able to strengthen supply change effectiveness by developing goals, objectives and strategic sourcing plans (CO: Critical Thinking, Communication, Community and Environmental Responsibility). Graduates will be prepared to respond to diverse client needs with a global mindset while applying problem solving skills and strategies (CO: Communication, Critical Thinking and Problem Solving, Cultural Awareness and Professional Competence).*

**4. *Does the community college program lead to student achievement of academic and technical knowledge, skills, and related proficiencies?***

The Supply Chain Management and Logistics Engineering certificate program was carefully designed to provide students with an overview of the complex interdependencies of supply chain functions. The curriculum has clear learning outcomes and strategies for assessment. In addition, it was designed to provide students the dual opportunities of entry-level employment or continuing their education at a four-year institution.

Courses are currently offered in hybrid format, which provides students with online learning activities and personal contact during class times. Starting fall 2018, the classes will be offered as online courses to accommodate a broader student population and maximize learning accessibility and equality.

The curriculum is designed with a mixture of lecture, group and individual projects, discussion topics and weekly assignments. Students have opportunities to develop academic skills and technical skills needed for the work place, critical thinking skills, and non-technical skills essential to succeed in any career.

The college maintains a rigorous approach to assessment and evaluation to ensure students are meeting course, program, and certificate outcomes. Data from the outcome assessments will be used for program improvement and determination of teaching-learning practices.

**5. *Does the community college identify and have the resources to develop, implement, and sustain the program?***

The Management and Supervisory Development department is staffed adequately to meet the requirements. Both full-time faculty members have more than fifteen-years of industry experience to provide students with real life experiences and latest trends in the field. All faculty, PT and FT, at PCC must meet instructor qualifications in order to teach a course.

The current computer labs are equipped with Microsoft Excel which is one of the most used applications for supply chain management analytical tasks.

PCC librarians feel the current collection is sufficient to support offered courses related to Supply Chain Management and Logistics Engineering. We already have many journal databases that contain strong current industry trends and education content.

All PCC students have access to career counseling, academic advising and instructional support. The college provides full service library services at three campuses in the district. The college is committed to maintaining a complete catalog of lower division collegiate courses to accommodate students earning a degree or certificate and preparing to transfer to a university. The college has an open access policy, which ensures access for all individuals. PCC serves students with special needs including those with disabilities, displaced workers, and non-native speakers of English. Services include the provision of tutors, counselors, child care, financial aid, and ESL instruction. Other services may include interpreters and communication devices for deaf and hearing-impaired students, note-taking options, taping of printed materials, test readers/writers, enrollment assistance, career guidance, and corrective physical education. Staff and students have access to consultations and workshops designed to increase awareness of disability issues. PCC as a public agency provides comprehensive services for students with disabilities in both the classroom and online formats. The college has a Disabilities Services Office:  
<http://www.pcc.edu/resources/disability/>

PCC supports diversity in the student body and employment. The PCC Office of Equity and Inclusion provides leadership to facilitate, manage and coordinate college policies, procedures and programs related to diversity, inclusion and equity:  
<http://www.pcc.edu/about/equity-inclusion/>

### **Assurances**

Portland Community College has met or will meet the four institutional assurances required for program application.

1. *Access.* The college and program will affirmatively provide access, accommodations, flexibility, and additional/supplemental services for special populations and protected classes of students.
2. *Continuous Improvement.* The college has assessment, evaluation, feedback, and continuous improvement processes or systems in place. For the proposed program, there will be opportunities for input from and concerning the instructor(s), students, employers, and other partners/stakeholders. Program need and labor market information will be periodically re-evaluated and changes will be requested as needed.
3. *Adverse impact and detrimental duplication.* The college will follow all current laws, rules, and procedures and has made good faith efforts to avoid or resolve adverse *intersegmental* and *intra*segmental impact and detrimental duplication problems with other relevant programs or institutions.
4. *Program records maintenance and congruence.* The college acknowledges that the records concerning the program title, curriculum, CIP code, credit hours, etc. maintained by the Office are the official records and it is the college's responsibility to keep their records aligned with those of the Office. The college will not make changes to the program without informing and/or receiving approval from the Office.