



Supply Chain Certification: It's not a “one and done” exercise

BY BRIDGET McCREA, CONTRIBUTING EDITOR

Here are six supply chain certification trends to watch in 2017...and beyond.

Chris Caplice remembers a time when supply chain professionals got the necessary credentials and then proceeded to enjoy their careers without needing much additional education or training. “Those days are gone,” says Caplice, executive director of the MIT Center for Transportation and Logistics. “Credentials are no longer a ‘one stop and done’ kind of thing, like degrees have historically been. Now it’s a continual, lifelong learning journey.”

As part of that lifelong journey, supply chain professionals are earning certifications, getting credentialed, earning degrees, and taking online courses that help them stay current on specific topics and applications. As the supply chain industry becomes more complex—and as technology, data, analytics and the Internet of Things (IoT) continue to have an impact on the space—that coursework is getting more and more specific.

“The education that’s coming out now is smaller, more focused and easier to digest,” says Caplice. “Professionals can handle the education at their own pace; you no longer have to devote two to four years to getting credentialed.” This is particularly useful for existing professionals who need to get up to speed on

modern technologies, applications, processes and strategies. “A lot of people who have been in the field awhile may be bit rusty,” says Caplice, “or they may have missed the boat on certain things that have [since] changed.”

To help fill those gaps, supply chain certification extends the educational experience beyond traditional college degrees and gives individuals a way to achieve new levels of specialization and expertise. Offered by groups like APICS (“CPIM”), CSCMP (“SCPro”) and ISM (“CPSM”), along with most leading academic institutions, certifications provide coursework in areas like internal manufacturing operations, end-to-end supply chains, logistics, transportation and distribution, among others.

Whether they are developing customized

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programs, tailoring those programs for government use, integrating mobile options into their course offerings or helping existing professionals fill in their knowledge gaps, certifications are playing an increasingly important role in the supply chain education field. Here are six key certification trends that are taking place right now:

1**Turnkey programs that think “out of the box.”**

Working with CSCMP, Broward College in Fort Lauderdale recently launched a Center for Supply Chain Education. A “turnkey” certification program that colleges, universities and businesses can use to train and certify supply chain professionals, this program extends beyond the typical boundaries of the certification process and essentially “thinks out of the box,” according to Leslie Backus, national project director. “This is sort of a ‘supply chain in a box’ program,” says Backus, “that allows schools and businesses to take the developed content and adapt it to their own programs and/or their own needs.” If, for example, a firm’s supply chain training is already strong in an area like warehousing and inventory management, but is weak on the procurement and demand planning fronts, then the program will pick up where the company has left off. “It can be adapted to the needs of the individual student or employee,” Backus adds. “This level of flexibility works well for schools and for individual firms that want to offer an adaptable and relevant supply chain certification.”

2**Certification that targets existing professionals.**

When MIT launched its MicroMasters in SCM, it intentionally targeted existing professionals who already possessed undergraduate or graduate degrees, but who needed more professional-level coursework. Officially launched in 2015, the MITx MicroMasters in SCM is offered 100% online and can be completed in roughly 18 months. Zhang Yao, senior manager at online grocer RedMart.com, says one of his organization’s biggest challenges is finding talented engineers and analysts who have the “right

skills and mindsets,” and then training them to design and build the company’s supply chain facilities, processes, and systems. “After finishing all the SCx classes, I found that the program provides a broad coverage and helps students see the bigger picture of supply chain management,” says Yao. “It [serves] as a perfect foundational course for further development in the supply chain and operations management domain.” Yao himself is now responsible for designing and managing RedMart’s industrial engineering graduate program, a 12-month in-house program to rotate fresh university graduates through all major areas of the RedMart supply chain process. “I am happy to report that our first batch of rigorously selected applicants will start their training in July,” he says, “and selected SCx classes will be an important part of their training program.”

3**Programs that morph to meet user needs.**

Since its inception in 2002, The University of Alabama in Huntsville’s supply chain program has seen a significant uptick in interest. In many cases, that interest comes from the many different government and industrial entities situated near the college, which offers a graduate degree in supply chain management along with various credit and non-credit supply chain certifications. Jatinder Gupta says the program has been well received by the U.S. Army. “Much of the industry in this region is defense-related, so we’ve also included those needs and viewpoints into our overall program in order to accommodate that demand,” says Gupta, president of the Decision Sciences Institute, director of the Integrated Enterprise Lab, and an Eminent Scholar of Technology at the university’s College of Business Administration. Updated regularly to meet the needs of government and industry, the program now includes a business analytics track that addresses big data, enterprise resource planning (ERP), and IoT. Going forward, Gupta sees supply chain security, governance and disruption as topics that can be addressed through certification. “Other topics that we are looking at, and that aren’t currently being

addressed, include supply chains related to situations that are not the usual manufacturing or services (e.g., space exploration and education),” says Gupta, “and living supply chains connected with bio-systems and people.”

4 Education that helps professionals stay relevant and current. In a society that places much emphasis on education, and where many professionals hold a bachelor's degree (or higher), the question: “Why should I take the time to earn a supply chain certification?” tends to come up a lot. Someone who already holds an MBA or a supply chain degree, for example, hasn't always understood the value of putting a new acronym after his or her name. But Nora Neibergall, SVP of certifications at ISM, says that sentiment is changing as supply chain certifications continue to morph and evolve. “Professionals need to stay current,” Neibergall says, “and they need to be able to show that they care enough about their career paths to set themselves apart.” Certification not only helps establish that baseline, but most of the offerings also give professionals access to a third party, independently validated certification process. That certification can then be transported from industry to industry, and from country to country, says Neibergall, “to demonstrate the broad spectrum of competencies that one needs to master as a supply chain management professional.” She adds that ISM's continuing education requirements also denote that a student has taken the responsibility to learn and grow within his or her job. “Certifications remain relevant in today's world,” Neibergall concludes, “because they show that someone is keeping current and staying on top of what they do as professionals.”

5 Certification is paying off. Certifications help professionals “fill in” their skillset and knowledge gaps while also helping them keep current and up-to-date on the latest and greatest supply

chain trends and applications. But do they pay off when it comes to salaries, promotions and job opportunities? According to APICS' most recent data, the answer to that question is a resounding “yes.” Of those surveyed, 44% held CPIM designations and 33% have CSCP designations. Individuals holding the CPIM designation received an average of approximately 10% higher compensation compared to those without the designation, according to APICS, and experienced a 77% favorable hiring decision impact (over those job candidates without the certification). Similarly, individuals with a CSCP designation received on average approximately 12% higher compensation than those without CSCP certification and a 76% favorable hiring impact.

6 Coming soon: Courses made for mobile consumption. Staying “connected” without being tethered to a desk, chair or couch has become a way of life for all professionals, and supply chain specialists are no exception to the rule. Knowing this, nearly all of the certification providers interviewed for this article say that they're working to include more mobile options into their coursework. At APICS, for example, Dean Martinez, EVP and COO, says mobile is becoming an increasingly important aspect of the organization's educational delivery. “We're all looking at how to incorporate mobile technology as part of the training and certification process,” he notes. Focused on learning how its educational products are “consumed,” the organization recently learned that more than 53% of students are using mobile devices to access and interact with the course content—up from 23% in December of 2016. “That's a 100% increase of use in a six-month period. That's significant,” says Martinez, who expects those percentages to continue rising. To accommodate that shift, he says providers will need to start going beyond “mobile friendly” and actually creating content designed for mobile devices. “It sounds like splitting hairs,” says Martinez, “but it's a significantly different approach than what we're all used to.” ☞☞

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Supply Chain Management

certifications offered by professional organizations and universities

There are more offerings than ever for supply chain professionals looking to improve their skills and further their careers.

BY MALINI NATARAJARATHINAM & PRAHARSHA SUNKARA

Every company that delivers a product or service has a supply chain management department. With the increase in the complexity of supply chains, all companies are looking for people who can be good managers and lead the supply chain with minimal issues. Certifications in SCM can be a great boost for anyone who aspires to a career in this field. The aim of this article is to expand upon the available recognized SCM certifications in the United States and to aid budding supply chain executives in their efforts to keep abreast of this rapidly changing area.

Indeed, many professional institutions, universities, colleges and even companies are expanding their education programs, including certifications, in the area of supply chain management. The focus of these courses is not just on traditional supply chain disciplines, such as inventory management and the fundamentals of procurement, but also to address collaboration skills, strategic planning, work culture and information technology, to name a few.

Given the number of options, choosing a certification is highly dependent on the expectations of the individual, his or her experience and career expectations. For instance, for someone with a global perspective, the APICS certifications are recognized across the globe, while university-offered certifications are better recognized in the United States compared to other parts of the world.

In the following pages, we present details on the certifications offered by professional organizations such as APICS, CSCMP and ISM, along with certificate programs available at more than 40 universities and academic institutions. The aim is to provide a basic understanding of the type of certifications available as well as information the eligibility requirements, expectations and requirements for completion of the certificate program. Please keep in mind that information on certification programs is subject to change. We highly recommend that readers check the respective certification program Websites before making a final decision.

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**A more complete
description of these
certifications is
available on scmr.com.**

PROFESSIONAL ASSOCIATIONS

APICS

With over 41,000 members and more than 250 international partners, APICS is one of the leading professional associations in the field of supply chain and operations management. The organization offers three major certifications: APICS Certified in Production and Inventory Management (CPIM), APICS Certified Supply Chain Professional (CSCP) and APICS Supply

Chain Operations Reference Professional (SCOR-P).

APICS Certified in Production and Inventory Management

APICS CPIM is recognized worldwide as a standard for production and inventory control. Candidates typically learn the basics of production and inventory management, such as the required terminologies, concepts, demand planning and management, procurement, scheduling, continuous improvement and related areas. CPIM is a recognized addition to the profile of anyone looking to advance a career in supply chain management; it is almost a necessity for individuals whose day-to-day activities involve working in production and inventory management, operations, supply chain management, procurement, purchasing and materials management departments.

Candidates must pass five modules to earn the APICS CPIM Certificate:

- Basics of Supply Chain Management;
- Master Planning of Resources;
- Detailed Scheduling and Planning;
- Execution and Control of Operations; and
- Strategic Management of Resources.

Each module must be taken individually. All the modules must be completed within 10 years of taking the first module exam, and APICS CPIM scores are valid for 10 years. There is no particular order of completion, but it is recommended that they be completed in the order listed above.

There are a number of resources available to help candidates study for these modules. The APICS website (www.apics.org) provides tips to aid exam preparation and to tackle the questions asked during the exam.

With the exception of the Basics of Supply Chain Management module, the APICS CPIM modules consists of 75 multiple choice questions, including 15 pretest questions

and 60 operational questions. The Basics of Supply Chain Management module consists of 105 questions, including 25 pretest questions and 80 operational questions. Pretest questions are not counted in the final score but are used for research purposes. Candidates are given three hours to complete a module test. Score range from 265-330 and candidates are required to score above 300 to pass the exam.

To maintain the APICS CPIM certification status, candidates must earn a total of 75 points every five years. Failure to maintain may lead to the suspension of CPIM credentials and also require a candidate to re-take all of the exams.

APICS Certified Supply Chain Professional Certification Program

The APICS CSCP certification was launched in 2006. Since then, more than 16,000 professionals from nearly 79 countries have earned this designation.

APICS CSCP certification distinguishes a candidate as an industry expert in the field of supply chain management. It is one of the most widely recognized certification programs and is also the most sought after designation by many employers. APICS CSCP exams are offered at locations around the world.

The program focuses on improving a professional's expertise in the field of global supply chain management in areas such as customer relations, information technology enablement, logistics and international trade.

To be eligible for the APICS CSCP, one must have:

- three years of business related experience;
- bachelor's degree; and
- CPIM, CFPIM, CIRM, SCOR-P, C.P.M., CSM or CPSM designations.

The APICS CSCP exam consists of three modules, which must be mastered for certification.

- APICS Supply Chain Management Fundamentals
- Supply Chain Strategy, Design and Compliance
- Implementation and Operations

There are a number of resources available to help candidates study for these modules. The APICS Website (apics.org) provides tips to aid exam preparation and to tackle the questions asked during the exam.

To maintain the APICS CSCP certification status, candidates must earn a total of 75 points every five years. These points can be earned by continuing education, pub-

lications and service to the operations management profession. Failure to maintain may lead to the suspension of CPIM credentials and also require a candidate to re-take all of the exams.

APICS Supply Chain Operations Reference – Professional

APICS SCOR-P model helps supply chain professionals manage and measure the performance of a global supply chain using the SCOR model. Widely recognized, the SCOR-R certification enables professionals to increase the performance of their supply chains using the knowledge gained in SCOR model.

The APICS SCOR-P certification enables candidates to standardize performance metrics, create best practices that affect supply chain performance, and the management of critical supply chain resources. In order to be eligible for this certification, candidates must have five years of experience working in supply chain management. APICS conducts three days of training for the APICS SCOR-P

exam. While attendance at the training sessions is not a pre-requisite to taking the exam, candidates are required to purchase the SCOR course in order to attend the exam.

After purchasing the SCOR course, the candidate will receive an e-mail with a Notice to Schedule (NTS) the exam date. This NTS is valid for six months.

APICS Certified in Logistics, Transportation, and Distribution (CLTD) program

The APICS Certified in Logistics, Transportation and Distribution (CLTD) designation assesses individuals based on a comprehensive body of knowledge, best practices and standards. Earning the CLTD credential validates a professional's expertise in the logistics, transportation and distribution.

Launched in 2016, this program features a single computer-based exam developed around new courseware, self-study and instructor-led education opportunities.

The APICS CLTD program consists of eight modules critical to the logistics industry, including:

- Logistics and Supply Chain Overview
- Capacity Planning and Demand Management
- Order Management
- Inventory and Warehouse Management
- Transportation

- Global Logistics Considerations
- Logistics Network Design
- Reverse Logistics and Sustainability

The APICS website (www.apics.org) provides many resources on the CLTD Learning System to help individuals prepare for the exam.

To apply for the APICS CLTD, submit an eligibility application two weeks prior to registration. The eligibility application must include:

- 3 years related business experience, or
- Bachelor's degree or the international equivalent, or
- CSCP, CPIM, CFPIM, CIRM, SCOR-P, CTL, C.P.M., CSM OR CPSM designations

In order to maintain the certification, designees must abide by the APICS Code of Ethics, which can be found on the APICS website (www.apics.org/cltd). Additionally, an individual must earn a total of 75 maintenance points and apply for maintenance every 5 years. These points can be earned by continuing education - presentations, publications, and educational development - service to the operations management profession, and/or professional membership. If the credentials are not maintained, the certificate will be suspended. Each additional year of suspension, up to 5 years, requires additional professional development point in order for the certification to be reinstated. After 5 years of suspended credentials, the candidate will be required to take the exam again.

CSCMP's SCPro Supply Chain Management Certification Program

The SCPro Supply Chain Management Certification is offered by the Council of Supply Chain Management Professionals (CSCMP).

SCPro certification is a three-level certification process that validates a professional's ability to assess business challenges and effectively implement improvements in the area of supply chain management.

Level One. Level one certification consists of eight modules and demonstrates a solid foundation of knowledge in all areas of supply chain management. In order to complete this level, candidates are required to have a bachelor's degree or four years of relevant work experience.

Level Two. Level two certification covers the analysis and application of supply chain challenges. In order to be eligible for level two, candidates must have a bachelor's

degree and three years of work experience or, alternatively, seven years of work experience along with level one certification.

Level Three. Level three certification requires candidates to perform hands-on analysis within a working environment and to create a detailed project plan that generates results such as increase in ROI, cost reductions and improvements. In order to be eligible for level three, a candidate should have a bachelor's degree and five years of work experience or, alternatively, nine years of work experience along with level one and level two certifications.

Candidates with all three levels of certification can demonstrate to an employer that they are well versed with the most important concepts required to manage today's supply chains.

ISM's Certified Professional in Supply Management (CPSM) Program

With nearly 45,000 members worldwide, the Institute for Supply Management is one of the largest global organizations focused on improving procurement and supply management. ISM has certified nearly 60,000 procurement professionals in more than 30 countries worldwide.

The Supply Management Program helps candidates become experts in critical areas of supply chain management such as sustainability, strategic sourcing and forecasting. The eligibility requirements for this exam are:

- three years of experience in supply chain management with a bachelor's degree or equivalent;
- five years of supply chain management experience without a bachelor's degree; and
- successfully pass three CPSM exams.

In order to earn this certification, candidates must complete in order the following three exams.

- Exam 1: Foundation of Supply Management
- Exam 2: Effective Supply Management Performance
- Exam 3: Leadership in Supply Management

Preparation resources for this certification can be found on the ISM Website (instituteforsupplymanagement.org).

ISM's Certified Professional in Supplier Diversity (CPSD) Program

The Supplier Diversity Program (CPSD) is best for professionals who participate in the development of supplier diversity initiatives. The eligibility requirements for this exam are:

- pass the CPSD exam;
- Exam 1 for CPSD is waived if the candidate has CPSM certification;
- five years of experience in the area of supplier diversity or supply chain management;
- a bachelor's degree and three years of experience in the area of supplier diversity or supply chain management.

Preparation resources for this certification can be found on the ISM Website (instituteforsupplymanagement.org).

NEXT LEVEL PURCHASING ASSOCIATION

NLPA SPSM Certifications

The Next Level Purchasing Association (NLPA) currently offers three certification levels that are open to supply chain professionals who are members of the NLPA. A fourth level is expected to be available in 2017.

The SPSM program covers essential procurement skills and consists of six online purchasing courses and an exam that focuses on the most effective purchasing and supply management techniques, tactics, and strategies. Candidates have up to one year to complete the program, but it can be completed in less time.

Level 2, or the SPSM2 certification, is open to individuals who have earned the SPSM certification and covers global procurement management. The program consists of four online procurement courses and an exam.

Level 3, or the SPSM3 certification, is available to individuals who have earned the SPSM and SPSM2 certifications. The program is designed to help professionals master the skills to collaborate with other departments leading to even better results and a greater bottom-line impact. The program consists of four online procurement courses and an exam.

Level 4 will cover social responsibility and strategic supplier diversity practices.

Information is available on the NLPA website (www.nextlevelpurchasing.com).

Sourcing Industry Group (SIG University)

SIG University Certification

The SIG University certification is focused on implementing methodologies and best practices in the areas of strategic sourcing, outsourcing, governance, risk and compliance. A 12-week course is currently available for Certified Sourcing Professionals, with online courses being added for Certified Sourcing Executives and Certified Governance and Risk Professionals. The curriculum is offered to

people at all levels in their sourcing careers who seek training opportunities. Each certification level consists of modules with interactive lessons and end-of-unit assessments. Each certification is valid for five years and was developed utilizing leading online best practices enhanced with relevant real-world experiences.

Information is available on the SIG University website (<http://sig.org/sig-university>)

CERTIFICATIONS OFFERED BY UNIVERSITIES

Apart from professional organizations, nearly 40 U.S. universities—and possibly more—have launched certification and degree programs in the field of supply chain management. The basic information on certifications is discussed below.

Air Force Institute of Technology Graduate Certificate in Supply Chain Management

This certification provides candidates with a graduate level education in the fundamentals of supply chain management with special emphasis on Department of Defense and Air Force applications. In order to be eligible for this program, candidates should have a bachelor's degree or equivalent with an overall GPA of 3.0 or higher. The curriculum consists of five graduate level courses, a total of 17 credits along with a non-credit business math review course. Candidates take one course every quarter and courses are offered once every year. Courses are available via video teleconferencing, online or in the classroom.

American Public University Graduate Certificate in Logistics Management

This graduate level certification provides the skills and knowledge required to excel in supply chain management and logistics. Eligible candidates are expected to have a bachelor's degree or equivalent. Candidates complete 18 credits hours, or six courses, to achieve this certification over a period of 12 months. While the program is taught in the classroom, an online version may be available on request.

Arizona State University Supply Chain Management Certificate

The Supply Chain Management Certificate at Arizona State University provides in-depth knowledge of industry best practices and benchmarks. This certification is ideal for professionals who have at least two to three years of experience in supply chain management. It consists of two core courses and a choice of elective tracks. Candidates can customize their certificate with a specialization in operations management, supply management and logistics management. Courses do not count toward academic credit but do qualify for 4.5 continuing education units (CEU's). These can be applied towards CPCP certification, CPM re-certification and APP re-accreditation program. The course is delivered online and can be completed in less than six months.

California State University at Dominguez Hills Online Certificate in Purchasing Education and Training

This certificate provides a broad level education on the principles of purchasing and procurement management. It is ideal for professionals who are currently working in the area of supply chain management and quality assurance, as well as those anticipating a career change. Courses are offered via online trimesters each year. Courses start in January, April and September. Each course is 13 weeks long. In order to obtain the certification, candidates must complete a total of five required courses with a GPA of 2.5 or better.

Online Certificate in Supply Chain Management

This certificate provides a broad level education on the principles of supply chain management. It is ideal for professionals who are currently working in the areas of production and inventory control, manufacturing, quality assurance, purchasing and procurement as well as those anticipating a career change. Courses are offered via online trimesters each year. Courses start in January, April and September. Each course is 13 weeks long. In order to obtain the certification, the candidate must complete a total of five required courses with a GPA of 2.5 or better.

California State University at Fullerton Supply Chain Management Certificate

The Supply Chain Management Certificate gives candidates the opportunity to learn how to handle and manage various activities within the area of supply chain management. This certificate is ideal for professionals who have prior experience working in the field of supply chain management as well as those anticipating a career change. Candidates are required to complete a total of six courses in order to earn the certification. The certification can be completed within a period of one year; upon completion of the requirements, candidates are also awarded 12 Continuing Education Units (CEUs). The program is taught in the classroom, but an online version might be available on request.

California State University at Long Beach Global Logistics Specialist Online Professional Designation Program

This certification provides candidates with an insider's view of transportation and supply chain management. Offered through the Center of International Trade and Transportation, it is the only program that offers the Global Logistics Specialist designation. This certificate is ideal for professionals who have prior experience working in the field of supply chain management as well as those anticipating a career change. Candidates are required to complete a total of five courses and an online capstone project within two years in order to earn the certification. All modules are available online and the designation can be completed within one year.

Columbus State Community College Supply Chain Management Certificate

The Supply Chain Management Certificate provides candidates the opportunity to learn about the planning and management of integrated supply and demand management processes across companies, both domestic and international. Anyone who aspires to a career in supply chain management can pursue this certification. The program is completely online and requires candidates to complete 6 courses in one year.

DePaul University Logistics and Supply Chain Management Certificate Program

The Logistics and Supply Chain Management Certification Program provides candidates with an overview of the critical aspects of supply chain management by not just taking the internal operations of a company into consideration, but by also including the supplier and end customer in the picture. This certificate is ideal for professionals who have prior experience working in the field of supply chain management or consulting and with experience with ERP systems. Completing the online 17-week course also prepares candidates for the APICS CSCP certification.

Georgia Institute of Technology Distribution Operations Analysis and Design Certificate

This certification equips professionals in distribution operations with the necessary skills for facility operations and improvements. It is ideal for professionals who have prior experience in distribution operations. A classroom-based program, candidates are required to complete three core courses and one elective within a span of six years.

Health and Humanitarian Supply Chain Management Certificate

This certificate is designed for professionals in non-governmental organizations (NGOs), industry and government who take active participation in Health and Humanitarian activities. Courses are designed to provide the necessary skills to improve decision-making processes, response operations planning and system design. A classroom-based program, candidates are required to complete three core courses within a span of six years.

Lean Supply Chain Professional Certificate

The Lean Supply Chain Professional Certificate provides candidates with the skills in problem identification, root cause analysis and problem solving. Upon completion of the program, candidates will be equipped to develop, lead and implement lean principles within a supply chain. This certificate is ideal for professionals who have experience in supply chain management and are looking for opportunities to expand their knowledge. Courses are available in the classroom and online and require candidates to complete 3 core courses within a span of six years.

Strategic Sourcing and Supply Management Certificate

This certificate is designed to empower sourcing, planning and procurement professionals to lead their companies through the complexities, risks and rewards of a global sourcing environment. The program is classroom-based and requires candidates to complete three core courses within a span of six years.

Supply and Demand Planning Certificate

This certificate provides candidates with an understanding of the important techniques and components related to integrated supply chain planning. The certification is ideal for professionals who have prior experience in the area of supply chain management, ranging from engineers up to the chief financial officer. This is a classroom-based program that requires candidates to complete three core courses and one elective within a span of six years.

Supply Chain Management Certificate

The Supply Chain Management Certificate gives candidates a cross-domain understanding of how to handle and manage various activities within the area of supply chain management. The certificate is ideal for professionals who have prior experience working in the field of supply chain management as well as those anticipating a career change. It is classroom-based and requires candidates to complete two core courses and two electives within a span of six years.

Golden Gate University

Graduate certificate in Global Supply Chain Management

The Global Supply Chain Management certificate is ideal for anyone who possesses a bachelor's degree and is looking for opportunities in the area of supply chain management. Courses are offered in the classroom and online. To earn this certificate, candidates are required to complete two core operations management courses, two elective operations management courses and two other elective courses. The elective operations management courses allow candidates to tailor their certificate.

Lonestar College System

First Line Logistics Leader Certificate

The Logistics Leader Certificate prepares graduates for employment opportunities in the area of supply chain management, materials management, inventory management and distribution. The certificate is ideal for professionals who have prior experience working in the field of supply chain management as well as those anticipating a career change. Courses are classroom-based and candidates are required to complete five courses within a semester.

Loyola University

Essentials of Logistics and Supply Chain Management

This certificate emphasizes the fundamental strategies, operational tactics and challenges involved with managing a domestic and international supply chain. It is ideal for professionals who have prior experience working in supply chain management as well as those anticipating a career change. It is classroom-based and candidates are required to complete four courses in a period of one year.

Michigan State University

Master Certificate in Supply Chain Management and Operations

The Master Certificate in Supply Chain Management and Operations improves the proficiency of candidates in the area of supply chain management and operations. Upon completion, candidates will be able to identify key elements of manufacturing planning and control systems and develop leadership skills that will ensure continuous

improvement. The certificate is ideal for professionals who have prior experience working in the field of supply chain management as well as those anticipating a career change. Courses are offered online and candidates are required to complete three courses. Each course is eight weeks in duration.

MIT

Executive Certificate in Technology, Operations and Value Chain Management

This executive certificate provides an opportunity for non-technical executives and tech-savvy managers to learn how to model and solve problems faced by companies within the current rapidly evolving technologies and global networks. The program is ideal for professionals who currently hold a position of senior manager or higher within a company. Candidates are required to complete four courses. The courses are classroom based and are two to five days in duration.

MITx (MOOC)

MicroMaster's Credential in Supply Chain Management

Gain expertise in the growing field of supply chain management through an innovative online program consisting of five courses and a final capstone exam. The MicroMasters Credential is an advanced, professional, graduate-level foundation in all aspects of supply chain management. It represents the equivalent of 1 semester's worth of coursework at MIT and covers all aspects of supply chain analytics, design, technology, dynamics and end-to-end supply chain management. Access to the videos, problems and other materials is free and open to anyone while certification requires a nominal fee.

Northeastern University

Supply Chain Management Graduate Certificate

The Supply Chain Management Graduate certificate is for professionals who wish to advance their careers in supply chain management as well as those anticipating a career change. Candidates must complete three core courses and two elective courses while maintaining a 3.0 GPA in order to earn this certificate. The certification can be completed in two semesters.

Penn State University

Graduate Certificate in Supply Chain Management

The Graduate Certificate in Supply Chain Management provides candidates with the ability to develop supply chain solutions for their organizations while gaining an understanding of domestic and global supply chain networks. The certificate is designed for working logistics professionals; professionals with backgrounds in engineering, science and liberal arts are also accepted into the program. Courses are classroom-based and require candidates to complete four courses. The program can be completed in a span of two semesters.

Portland State University

Graduate Global Supply Chain Management Certificate

Portland State's online master-level certificate is designed for current MBA and Master of International Management students to expand upon their business knowledge; the certificate is also an excellent stand-alone credential for those currently working in supply chain. The university has partnered with the region's top employers, including Boeing and Nike, to develop an integrated supply chain program for today's global supply chain professionals. The program consists of three required core courses and one additional elective. All courses can be transferred into the master's degree program.

Certificate in Supply Chain Management

The SCM certificate program is a class-room based program designed to help supply chain professionals expand their knowledge base with relevant, practical curriculum that builds your skills in this dynamic field. All of our courses are taught by experienced SCM industry professionals. The program consists of four required core courses and two electives. The program can be completed in two terms. Courses can be taken individually or can be applied to a certificate within a three-year limit. Courses completed outside of the three-year limit will need to be retaken to qualify for certificate completion.

Rutgers State University

Supply Chain Management Certificate

The Supply Chain Management certificate program covers the major aspects of supply chain management such as sourcing, procurement, logistics and operations. Candidates learn how to execute a supply chain management plan in today's competitive world. This certificate is ideal for higher-level managers and directors who have at least five years of managerial experience. A three-day program, participants are required to complete assigned readings and case studies by the end of the program.

Shippensburg University

Advanced Supply Chain and Logistics Certificate

The Advanced Supply Chain and Logistics Certificate is designed for working professionals who aim to gain an understanding in the area of supply chain management and logistics as well as those anticipating a career change. The program is also ideal for individuals who have prior experience in engineering, science and liberal arts. The candidate is required to complete six courses. Courses are classroom-based and can be completed within a period of one year.

Southern New Hampshire University

Operations and Supply Chain Management Graduate Certificate

This certificate is designed to introduce candidates to key supply chain concepts, strategies and processes, such as inventory control, warehouse management, transportation and procurement. This certification is ideal for professionals in the area of supply chain management and quality assurance, as well as those anticipating a career change. Courses are offered online and are available throughout the year. Candidate must complete four core courses and two electives.

Southern Polytechnic State University

Industrial Engineering Technology Department Certificate of Logistics

This certificate program provides training on current trends in supply chain management and improves the skills and knowledge of candidates. Applicants must have a high school degree or GED and have been out of high school for at least five years or have earned at least 30 credits from an

accredited institution with a minimum 2.1 GPA. Candidates are required to complete seven courses. Courses are offered in the classroom and online and can be completed within a period of four to six semesters.

St. Louis University

Integrated Supply Chain Management Program

The Integrated Supply Chain Management Program offers comprehensive management development tools and techniques for supply chain management professionals. The certificate is ideal for professionals who have at least three years experience in the functional areas of supply chain management. Each of the required seminars are offered twice a year. Candidates must complete all the seminars within a period of 18 months.

Stevens Institute of Technology

Logistics and Supply Chain Analysis Graduate Certificate

The Logistics and Supply Chain Analysis Graduate Certificate focuses on the theory and practice of designing and analyzing supply chains. This certificate is ideal for working professionals looking for opportunities to expand their knowledge, especially in the areas of transportation and inventory control. Courses are offered in the classroom and online. Candidate are required to complete four courses.

Syracuse University

Executive Certificate in Supply Chain Management

The Executive Certificate in Supply Chain Management can be earned by completing any five of the following courses.

- Introduction to Supply Chain
- Six Sigma Black Belt
- Supply Chain Systems
- Project Management
- Fundamentals of Sourcing
- Lean Manufacturing and Lean Champion

Each course is roughly 10 weeks long. All programs have been designed for working professionals, from engineering up to the president of a company.

Towson University

Supply Chain Management Post Baccalaureate Certificate

The Supply Chain Management Certificate provides candidates with a competitive advantage in analyzing and controlling the activities and trends within a supply chain. The certificate is open to anyone who wishes to learn more about the field of supply chain management. Successful candidates can continue on to the Master's program. Candidates must complete 15 credits or five courses. Courses can be taken in the evenings and can be finished within a year.

University of California at Riverside

Professional Certificate in Purchasing, Logistics and Supply Chain Management

This certificate integrates the concepts of purchasing, logistics and supply chain management in one program. It is designed to help professionals develop their skills and capabilities in these areas and is offered in collaboration with the Institute of Supply Chain Management. The certificate is ideal for professionals who have prior experience working in the field of supply chain management as well as those anticipating a career change. In order to earn this certificate, candidates must complete three required courses and three elective courses. Classroom-based courses can typically be completed within a period of nine months to one year.

University of California at Los Angeles

Supply Chain Management certificate

The Supply Chain Management certificate offers training and tools to help manage the critical aspects of supply chain management, logistics, purchasing and inventory management. It is open to anyone who wishes to learn more about the field of supply chain management. Courses are offered online and candidates are required to complete six mandatory courses and two electives with a grade of "C" or better. Courses have to be completed within five years.

University of California at San Diego

Certificate in Purchasing and Supply Management

The certificate in Purchasing and Supply Chain Management provides the practical information and techniques needed to solve real supply chain issues. This certificate is ideal for professionals who have prior experience working in the field of supply chain management as well as those anticipating a career change. Courses are classroom-based and require candidates to complete three mandatory courses and six elective courses. Designed for working professionals, courses can typically be completed within a period of one year.

University of Michigan - Ann Arbor

Lean Supply Chain and Warehouse Management Certificate

This certification program provides a comprehensive approach to developing lean supply chain and logistics systems that help tackle strategic and tactical challenges. It is ideal for professionals who have prior experience working in the field of supply chain management as well as those anticipating a career change. A two-week-long classroom program, candidates are required to complete two online exams.

University of Missouri at St. Louis

Graduate Certificate in Logistics and Supply Chain Management

This certificate is designed to provide a focused and intensive study on the important areas of supply chain management and logistics. It is open for anyone who wishes to learn more about the field of supply chain management. Candidates are required to complete six courses. The courses are all classroom based.

University of North Florida

Certification in Transportation and Logistics

This certification helps candidates identify best practices in costing, pricing, cost reduction and productivity improvements. Recognized internationally, the CTL certification is ideal for professionals who have experience working in the transportation and logistics industry. Those seek-

ing this certificate are required to have a four-year degree or at least three years of experience in the area of transportation and logistics. Candidates are required to complete five modules. All modules are classroom based.

University of San Francisco

Advanced Professional Supply Chain Management Certificate

The Advanced Professional Supply Chain Management Certificate helps candidates understand the relationship between a company, the components of its supply chain and the role of the supply chain manager. The certificate is open for anyone who wishes to learn more about the field of supply chain management. Candidates are required to complete three courses, which are offered online.

Advanced Professional Sustainable Supply Chain Management Certificate

The Advanced Professional Sustainable Supply Chain Management Certificate helps candidates identify regulatory and sustainability issues within an organization and its supply chain. This certificate is ideal for professionals who have prior experience working in the field of supply chain management as well as those anticipating a career change. Candidates are required to complete three courses, which are offered online.

University of Texas at Dallas

Supply Chain Management Certificate

The Supply Chain Management Certificate helps professionals create value, provide solutions and excel in effective and real world decision-making. The certificate is open to anyone who wishes to learn more about the field of supply chain management. Candidates are required to complete four modules (eight days on campus and four days online).