



**SOLICITUD DE AUTORIZACIÓN DE ESTUDIOS COMPLEMENTARIOS  
EN OTRA INSTITUCIÓN, COMO OPCIÓN PARA OBTENER EL  
GRADO ACADÉMICO DE MAESTRO**

**6 de Marzo 2018**

Fecha de solicitud \_\_\_\_\_

El (la) alumno(a): General para cualquier estudiante  
Apellido Paterno \_\_\_\_\_ Apellido Materno \_\_\_\_\_ Nombre(s) \_\_\_\_\_

con expediente número NA quien cursó el Programa Académico de:

Maestrias en: Logística, Ingeniería Industrial, Inteligencia Analítica, Tecnología de información -

**Business Intelligence**

con Reconocimiento de Validez Oficial de Estudios otorgado por Decreto Presidencial publicado en el D.O.F. del 26 de noviembre de 1982

Habiendo cumplido con el 100% de créditos solicita, con fundamento en el Reglamento General para la obtención de Títulos Profesionales, Diplomas de Especialistas y Grados Académicos, la autorización para optar por el Grado correspondiente, con base en los estudios complementarios de:  
SCPro Level One Supply Chain Professional

( ) cursados en:

( x ) que se cursarán en:

CSCMP Council of Supply Chain Management Professional (via online)

y que considero adecuados para ello, en el entendido que las calificaciones mínimas deberán de ser de 8.0 o de su equivalente, realizar la presentación del caso o trabajo académico y la réplica oral correspondiente para que proceda la opción.

Estoy enterado que en términos del Reglamento citado según el Artículo 50 "NO PROCEDE" el otorgamiento de la Mención Honorífica.

**DICTAMEN DE VIABILIDAD**

La propuesta de estudios reúne  
los siguientes requisitos establecidos:

Horas cubiertas	<u>100</u>
Afin y complementario	<u>SI</u>
Nivel Maestría, Equivalente o Superior	<u>SI</u>

Nombre y firma del alumno

Mtro. Pedro Guillermo Hjar Fernández  
Director de la Escuela o Facultad

Dr. Victor Manuel López Sánchez

Coordinador Académico

Mtra. Cecilia Balbás Díez Barroso  
Directora Académica de Posgrado y Educación  
Continua

Mtro. Juan Pablo Calderón Dávalos  
Director de Posgrado y Educación Continua

Mtro. Jorge Miguel Fabre Mendoza  
Vicerrector Académico

Mtro. Pedro Guillermo Híjar Fernández

Director de la Facultad de Ingeniería

Universidad Anáhuac México

Presente

Estimado Mtro. Híjar:

En el presente documento le expongo las razones para introducir la certificación profesional internacional *SCPro Level one* otorgada por el *Council of Supply Chain Management Professionals* (CSCMP) de los Estados Unidos de América, como opción de titulación bajo la modalidad de Estudios Complementarios para los estudiantes de los siguientes programas de maestría del CADIT: Maestría en Logística, Maestría en Ingeniería Industrial, Maestría en Tecnologías de Información-Business Intelligence y Maestría en Inteligencia Analítica

### Organismo Certificador

CSCMP "The Council of Supply Chain Management Professionals" fue fundado en 1963 en los Estados Unidos y cuenta con 6000 miembros corporativos e instituciones de educación superior y más de 100,000 profesionales localizados alrededor del mundo. Entre los países donde tiene presencia se listan: Estados Unidos, Australia, China, Japón, Taiwan, España, Suiza, Alemania, Suecia, Polonia, Italia, Canadá, Perú, Colombia, Arabia Saudita y México. CSCMP se asocia con expertos de la industria y académicos líderes en el campo para seleccionar contenido de tendencias a lo largo del año y seguir siendo un líder de opinión para la cadena de suministro. Entre sus actividades fundamentales destaca la divulgación de conocimiento sobre prácticas logísticas, reportes de investigación, organización de eventos internacionales y los procesos de certificación para profesionales de logística y cadena de suministro.

CSCMP es el creador de los procesos de certificación de alto prestigio SCPro entre los que se encuentran:

- SCPro Level One certification
- SCPro Level Two certification
- SCPro level Three certification

Los procesos de certificación de CSCMP son rigurosos, se aprueban mediante exámenes y se emite una certificación reconocida internacionalmente. La preparación requiere más de 100 horas de preparación en línea y trabajar exámenes de prueba antes del examen internacional.



Anáhuac  
México

Opción de Estudios Complementarios

Las razones se listan a continuación:

- Las evaluaciones CIEES miden un indicador de certificaciones profesionales que podemos cumplir en nuestros programas.
- Las líneas de conocimiento del CADIT: Planeación Empresarial, Logística, Análisis de Decisiones (fundamentalmente optimización y Analytics) y Tecnologías de información se complementan con las cadenas de suministro de acuerdo a estudios de Deloitte<sup>1</sup>, Gartner<sup>2</sup> y PriceWaterHouseCoopers<sup>3</sup> consultados.
- De acuerdo con "The Association for Supply Chain Management"<sup>4</sup> 200,000 posiciones estratégicas en Cadena de Suministro no fueron llenadas en los Estados Unidos por falta de talento en esta área en 2013<sup>4</sup>
- Incrementa aún más el valor del programa y la motivación del estudiante en tener la posibilidad de obtener adicional a su grado y cédulas de especialidad y maestría, una certificación por un organismo internacional profesional reconocido.
- Académicamente, la preparación para la certificación cumple las horas requeridas por nuestra normatividad. 8 semanas con 16 horas 128 horas.
- SCPro complementa conocimientos y casos no vistos en los programas de maestría. SCPro es la única certificación de la industria que requiere el conocimiento de los ocho bloques de aprendizaje que conforman la cadena de suministro de extremo a extremo.
- Los costos los cubre el candidato a titularse como lo hace con las opciones actuales de estudios complementarios.
- La investigación muestra que los encargados de la logística y la cadena de suministro con mayor remuneración son aquellos que cuentan con educación formal en estos procesos. La Certificación profesional está teniendo un valor muy importante en las empresas<sup>5</sup>
- El estudiante se enfrenta a una evaluación por un organismo internacional y presenta su examen en el idioma inglés
- Con la introducción de SCPro Level One como opción de estudios complementarios, se aumenta a tres certificaciones profesionales que tienen los alumnos para seleccionar en nuestros programas de acuerdo a su interés:
- CLTD Certified in Logistics, Transportation and Distribution APICS (dos alumnos en proceso)
- CSCP Certified in Supply Chain Professional APICS (una alumna certificado, tres en proceso)
- SCPro level One CSCMP (propuesto)

### Programas de Certificación propuestos.

Se sugiere SCPro Level one por las siguientes razones:

- Es el primer nivel de certificación y permite al estudiante decidir si más adelante busca los siguientes dos niveles o no.
- Nuestros candidatos a titulación cumplen los requisitos de elegibilidad en cuanto a experiencia profesional y antecedentes académicos



- Su formación en un posgrado en ingeniería les da fortaleza para una mayor probabilidad de éxito por los temas
- El estudiante presenta un solo examen para lograr la certificación
- Se puede consultar el comité directivo para visualizar la relación entre profesionales y profesores de Universidades [http://cscmp.org/CSCMP/Footer/Board\\_of\\_Directors.aspx](http://cscmp.org/CSCMP/Footer/Board_of_Directors.aspx)

Se respeta el reglamento de la universidad referente a Estudios Complementarios ya que el estudiante al terminar su formación presenta su trabajo académico como lo estipula la normatividad.

Sin más por el momento quedo en espera de sus comentarios

Reciba un cordial saludo

**Dr. Víctor Manuel López Sánchez**  
**Coordinador Académico**  
**Doctorado en Ingeniería Industrial y**  
**Maestría de Logística**  
**Universidad Anahuac México**

[1] Supply Chain Talent of the Future 2016 Report, Deloitte Consulting

[2] PwC Core Team SCM, Next-Generation Supply Chains, Efficient, Fast and Tailored 2013, PwC Consulting

[3] Gartner, Survey Analysis: Top 25 North American Supply Chain Graduate University Programs, 2016

[4] APICS Report

[5] CSCMP web page

C.c.p Mtro. Rafael López Meneses



# LEVEL ONE CORNERSTONES OF SUPPLY CHAIN MANAGEMENT

OVERVIEW



CSCMP  
Council of Supply Chain  
Management Professionals

*"Educating and Connecting the World's Supply Chain Professionals"*

## Who is CSCMP?

Since 1963, the Council of Supply Chain Management Professionals (CSCMP) has been the leading worldwide professional association dedicated to the advancement and dissemination of research and knowledge on supply chain management. With more than 8,500 members globally, representing business, government, and academia from 67 countries, CSCMP members are the leading practitioners and authorities in the fields of logistics and supply chain management.

CSCMP's mission is to lead the Supply Chain profession by connecting, developing, and educating the world's Logistics and Supply Chain Management Professionals throughout their careers.

## SCPro™ Certification Program

CSCMP offers the SCPro™ certification program as a career development opportunity. Developed by industry experts in partnership with CSCMP, SCPro™ is a three-tiered certification program that assesses progressive knowledge, skills and abilities across supply chain activities. Each program has eligibility requirements that must be fully met before a candidate can complete the exam.

- **SCPro™ Level One: Cornerstones of Supply Chain Management** assesses knowledge of eight elements of supply chain management through an exam comprised of multiple-choice questions.
- **SCPro™ Level Two: Analysis and Application of Supply Chain Challenges** assesses ability to apply supply chain knowledge through a case study-based exam.
- **SCPro™ Level Three: Initiation of Supply Chain Transformation** assesses ability to demonstrate knowledge, skills, and abilities through completion of a well-defined project in a real-world setting. Successful completion of the project demonstrates the gamut of supply chain management skills needed to positively impact an organization.

Candidates preparing for each level of the SCPro™ certification deepen their supply chain management knowledge, skills and abilities. Achieving SCPro™ certification allows professionals to demonstrate their capability to analyze, design, and implement quantifiable change across the complete range of end-to-end global supply chain functions. Once earned, certificants must keep the certification current by fully meeting certification renewal requirements every three years.

## Value of SCPro™ Certification

Earning the SCPro™ credential is a way to be distinguished from others as a supply chain management expert with the breadth of knowledge and operational skills to positively impact an organization. Professionals who earn the SCPro™ credential can benefit in the following ways:

- Demonstrated capability of end-to-end supply chain management
- Increased professional worth and a way to differentiate themselves in a competitive marketplace
- Illustrated commitment to ongoing professional development by keeping the certification current
- Increased potential for advancement in an organization

Here's what some certificants are saying about the value of SCPro™ certification:

- "The breadth of information required to successfully master this test guarantees that the professional has a solid understanding of the supply chain."
- "It will give me credibility in the broad field, allow me to transition between positions (e.g., logistics, purchasing, demand planning), and expand my understanding of others in the field."



## The SCPro™ Certification Process

1. **Meet the SCPro™ Level One eligibility requirements.** Complete an online SCPro™ Level One Eligibility Application to demonstrate how you meet one of the following the SCPro™ Level One eligibility requirements:
  - Baccalaureate degree or higher from an accredited four-year university or college
  - Four years of relevant supply chain management experience.The application is available at [cscmp.org](http://cscmp.org).

2. **Prepare for the SCPro™ Level One certification exam.** The method of preparation and amount of time spent preparing for the exam is typically driven by a candidate's preferred study style, level of professional experience and/or academic background. CSCMP makes available education and tools to help candidates prepare for the exam. **Schedule and complete the exam.** If the SCPro™ Level One Eligibility Application is approved, CSCMP sends the candidate information on how to submit payment for the exam as well as to schedule the exam date. SCPro™ Level One certification exam fees are as follows:
  - CSCMP Members: \$650 US
  - Nonmembers: \$975 US

4. **Earn a passing score on the SCPro™ Level One certification exam.** Eligible candidates who receive a passing score on the SCPro™ Level One certification exam are awarded the SCPro™ Level One credential.
  - Candidates who are unsuccessful on an attempt at the exam are allowed to retake the exam after a minimum of 30 days from the prior attempt. A candidate may attempt the exam up to a total of three times in a 12 month period. Retake fees apply.
5. **Keep the certification current.** Candidates must renew the SCPro™ credential by completing 60 hours of eligible professional development activities during the three-year renewal period, with a minimum of 20 hours completed for each 12-month period of the three-year certification renewal cycle. An application and processing fee must be submitted.
  - Candidates approved of meeting the certification renewal requirements receive notification from CSCMP with an indication of the new certification expiration date.
  - Candidates who fail to meet the certification renewal requirements lose the SCPro™ credential and must retake and earn a passing score on the highest level of certification achieved.

6. Eligible candidates can further advance their career and pursue the SCPro™ Level Two and Level Three certifications.

## SCPro™ Level One Exam Overview

Features of the SCPro™ Level One: Cornerstones of Supply Chain Management certification exam include the following:

- 160 multiple-choice test questions with 20 questions per learning block
- Four options for answers with one best answer for each question
- Score is the number of questions answered correctly
- 225 minute (3 hours, 45 minutes) time limit to complete the exam
- Administered in a computer-based format

Content assessed on the SCPro™ Level One exam includes the following supply chain elements:

- Supply Chain Concepts
- Demand Planning
- Procurement and Supply Management
- Manufacturing and Service Operations
- Transportation
- Inventory Management
- Warehousing
- Order Fulfillment and Customer Relationships

In each content area (Learning Block), there are questions on the following topics:

• Processes	25%	40 Questions
• Strategies	22%	35 Questions
• Concepts	16%	25 Questions
• Assessment	16%	25 Questions
• Technology	12%	20 Questions
• Global	9%	15 Questions

The SCPro™ Level One exam questions assess knowledge at the following cognitive levels:

- **Recall:** The ability to recognize or recall specific facts or information.

Sample question: How are the effects of an 85% learning rate best described?

- A. Production doubles, the direct labor required to produce a unit should decrease an average of 15%\*
- B. Production doubles, the direct labor required to produce a unit should decrease an average of 85%.
- C. Purchase quantities double, the purchase price should decrease an average of 15%
- D. Purchase quantities double, the purchase price should decrease an average of 85%

- **Application:** The ability to comprehend and apply information and relevant elements to a situation.

Sample question: An exporter ships sunglasses with a retail value of \$150.00 per unit from Singapore to the United States. The sunglasses are shipped 24 units per case, and there are 50 cases per delivery. The case dimensions are 18 inches x 12 inches x 18 inches.

What international intermodal transportation is most appropriate for this shipment?

- A. Air and railroad
- B. Air and truck\*
- C. Water and railroad
- D. Water and truck

- **Synthesis:** The ability to judge, analyze and synthesize information to formulate a solution and/or evaluate the usefulness of a solution.

Sample question: A small manufacturer makes specialty medical care products in a single factory. It ships directly from the factory to end consumers utilizing a common carrier. Last year, production costs were \$500,000 and transportation costs were \$250,000. If the manufacturer changes its business model to hold products in regional warehouses, production costs would decrease by 15%, common carrier costs would decrease by 60%, adding shipments from the factory to regional warehouses would cost \$50,000, and the regional warehouse facilities would cost \$75,000 on an annual basis. If total costs are the only factor in the decision, which business model should the manufacturer utilize and why?

- A. The existing factory to end consumers model because the factory to regional warehouses model would increase total costs by \$100,000 annually.
- B. The existing factory to end consumers model because the factory to regional warehouses model would increase total costs by \$175,000 annually.
- C. The new factory to regional warehouses model because it would decrease total costs by \$100,000 annually.\*
- D. The new factory to regional warehouses model because it would decrease total costs by \$175,000 annually.

\* Correct answer