



Lean Six Sigma Black Belt
400 Contact Hours with Provided Project for Certification

Lean Six Sigma is focused on the professional who desires to attain a Black Belt certification which is recognized in multiple global industries. We provide a partnering company and project for your certification. Once certified, the candidate is globally recognized in all major industries as a change agent who can drive efficiency into the organization.

Prerequisite:	Minimum of 5 years experience
Curriculum Leader:	David Patrishkoff, President of Innovative Solutions Group Bachelors and Masters Degrees 30 years in product engineering and management of global operations
Targeted Participants:	Executives, Directors, Managers, Product Engineers, Manufacturing Engineers, Production Engineers, Analysts, Designers, Technicians
Targeted Industries:	Any industry that develop products, manufacture products, assembles products or provides a service to customers
Targeted Positions:	Executives, Directors, Managers, Product Engineers, Manufacturing Engineers, Production Engineers, Analysts, Designers, Technicians
Objective:	Present a well rounded curriculum that addresses specific job skills, tools and techniques a Black Belt Six Sigma Professional relies on to initiate and perform their improvement projects. Deliver the knowledge and skills required to successfully document an improvement project and achieve certification.
Core Courses:	Competent Technical Communication Lean Manufacturing Total Quality Management (TQM) Lean Six Sigma 1 (2 classes) Lean Six Sigma 2 (2 classes)
Elective Courses (choose 3):	Alternative Energy Technologies Overview Dimensional Analysis (GD&T) APQP, FMEA & PPAP Program Management PMP Examination Preparation Computer Aided Engineering (CAE) Test to Failure (TTF) Digital Signal Processing in Noise and Vibration Testing Experimental Modal Analysis Unigraphics NX7 Advanced Unigraphics NX7 Pro Engineer Advanced Pro Engineer



Why employers from many industries need Lean Six Sigma professionals

- Companies in all industries employ internal business processes that are burdened with an average of 75% non-value added activities
- Defects, errors, inefficiencies and rework are an additional financial burden for companies throughout the world today
- Lean Six Sigma (LSS) combines advanced Six Sigma problem solving tools with Lean Manufacturing techniques that target the removal of all forms of waste
- There are multiple levels of LSS certification, CPS has built specific programs that are based on the more popular ones utilized, Green and Black Belt certification
- Green Belts are trained for 2 weeks, pass a competency test and submit a real life cost savings project to us for certification approval. These Green Belt projects typically save an organization over \$150,000 annually.
- Black Belts are trained for 4 weeks, pass a competency test and submit a real life cost saving project to us for certification approval. These Black Belt projects typically save an organization over \$250,000 annually.
- Certification is achieved after the Green or Black Belt student completes coursework, passes a knowledge based test and successfully completes a real life project
- The ideal LSS project is defined as a serious business issue with highly disputed or unknown root causes and the issue has defied resolution in spite of repeated attempts to address the problem

Value of being a Black Belt certified practitioner

- iSixSigma is a worldwide LSS association that offers knowledge transfer and a LSS recruiting website www.isixsigma.com that posts many different LSS job opportunities from many companies in multiple industries, who are currently hiring
- Many new LSS related jobs have been posted on this website for every month of 2009
- Many job search firms specialize just in recruiting Green and Black Belts
- The 5th Annual 2009 iSixSigma Global Salary Survey polled 2,142 Six Sigma professionals from 66 countries, 1,305 of the polled respondents were from the US
 - The 2009 average US Black Belt had a salary of **\$88,084**
 - 85% of all US Black Belts got a bonus that averaged **\$13,868**



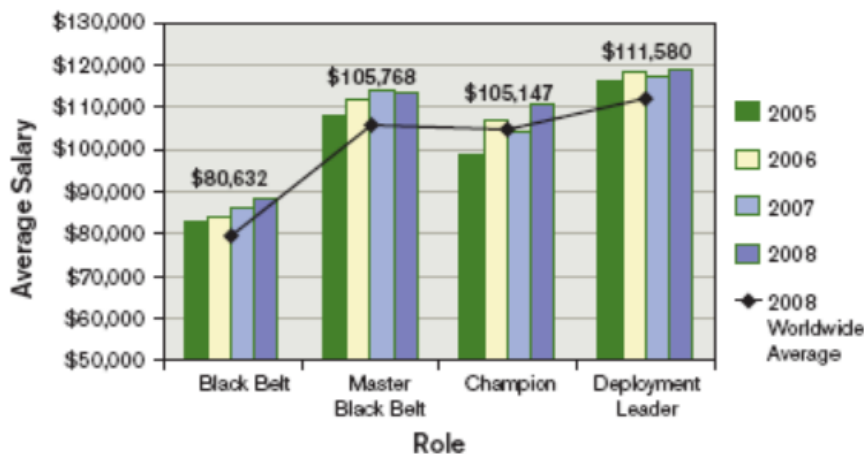
iSixSigma Global Salary Survey

Table 4: Average Compensation for the United States

Role	All Respondents	Respondents Who Reported Bonus Compensation*		
	Annual Salary	Annual Salary	Bonus	Total
Black Belt	\$88,084	\$90,220	\$13,863	\$104,083
Master Black Belt	\$113,497	\$113,470	\$21,309	\$134,779
Champion	\$110,500	\$113,421	\$21,178	\$134,599
Deployment Leader	\$118,947	\$123,182	\$29,245	\$152,427

*This data represents respondents who answered the survey question about bonus compensation; it includes people who indicated that they do not receive a bonus.

Figure 5: U.S. Year-to-Year Comparison



Why choose The Center for Professional Studies

- CPS has been training professionals as a hands-on State of Michigan licensed school since 1993 in the business environment which produces real project deliverables that improve operations
- The course curriculum is fast paced, not long term semester based, with real life experienced practitioners teaching application for multiple industries
- LSS utilizes Minitab and Datafit software to conduct real hands-on projects.
- We have established partner companies in the Detroit area that will intern our students to complete their real life projects for official final LSS certification that we provide
- Projects are selected, approved and started in class while learning the tools and techniques of application
- When the training is completed the student is mentored by us to conclude the project within months and we then certify the student as a Black Belt practitioner



Competitive Comparison of Lean Six Sigma Black Belt certificate programs

CPS	The Center for Professional Studies
OCC	Oakland Community College
MCC	Macomb Community College
LTU	Lawrence Technology University (online course, no face-to-face instruction)
NH	New Horizons
MMTC	Michigan Manufacturing Technology Center
UM	University of Michigan (online course, no face-to-face instruction)

Courses	CPS	OCC	MCC	LTU	NH	MMTC	UM
Technical Communication	Yes	-	-	-	-	-	-
Lean Manufacturing	Yes	-	-	Yes	-	Yes	Yes
Total Quality Management	Yes	-	-	-	-	Yes	Yes
Lean Six Sigma 1	Yes	-	-	Yes	Yes	Yes	Yes
Lean Six Sigma 2	Yes	-	-	Yes	-	Yes	Yes
Alternative Energy	Yes	-	-	Yes	-	-	-
Dimensional Analysis	Yes	Yes	Yes	-	-	-	-
Test to Failure	Yes	-	-	-	-	-	-
APQP, FMEA & PPAP	Yes	-	-	-	-	-	-
Program Management	Yes	-	-	Yes	-	-	-
PMP Exam Prep	Yes	-	-	Yes	Yes	-	-
Computer Aided Engineering	Yes	-	-	Yes	-	-	Yes
Test to Failure	Yes	-	-	-	-	-	-
Digital Signal Processing	Yes	-	-	-	-	-	-
Experimental Modal Analysis	Yes	-	-	-	-	-	-
Pro E	Yes	Yes	-	-	-	-	-
Advanced Pro Engineer	Yes	-	-	-	-	-	-
Unigraphics NX7	Yes	Yes	-	-	-	-	-
Advanced Unigraphics NX7	Yes	-	-	-	-	-	-
Additional Features							
Fast paced courses	Yes	-	-	-	Yes	Yes	-
Partnering Companies	Yes	-	-	-	-	-	-
20 hours of Project Mentoring	Yes	-	-	-	-	-	-
Face to Face Instruction							
Application Expert Instructors	Yes	-	-	-	-	Yes	-
Program Contact Hours	400	n/a	n/a	n/a	n/a	n/a	40
Price per Contact Hour	\$62	\$28	\$72	\$58	\$62	\$66	\$125
Provided Technology Tools During and After Classes							
New Laptop with software	Yes	-	-	-	-	-	-
Minitab Software	Yes	-	-	-	-	-	-
DataFit Software	Yes	-	-	-	-	-	-
CAD Software	Yes	-	-	-	-	-	-
Text Books and Work Books	Yes	-	-	-	Yes	-	-

*Note: All software is student edition versions for student's personal learning use only
Laptop is given to student after all program requirements are met*