



**150 hours specialized course in**  
*(Equivalent to Six Sigma Black Belt Program)*  
**“Quality & Process Improvement in a Systematic, Statistical & Six Sigma Way”**

**Tentative Schedule:**

Phase-I	Phase-II	Phase-III	Phase-IV	Phase-V	Additional Phases
4 days	4 days	4days	3 days	2days	As per requirement

**Program Details (first 5 phases are mandatory and after it depends on the choice of participants).**

<b>What Five phases will cover in details and depth?</b>
<ul style="list-style-type: none"> <li>o DMAIC Approach</li> <li>o Difference between DMAIC, QI Story and 8-D approach</li> <li>o Difference between six- sigma, lean sigma and TQM philosophy</li> <li>o Voice of customers and converting it with QFD</li> <li>o Process Flow chart and PFD</li> <li>o Kano Model</li> <li>o 7 old QC tools in depth and details</li> <li>o 7 New QC tools (management tools) in depth and details</li> <li>o Multi-vari Analysis</li> <li>o DOE tools including all Shainin techniques (Paired comparison, process parameter search, component search, variable search, B vs. C analysis, Factorial analysis, Plackett-Burman Analysis, Taguchi DOE)</li> <li>o ANOVA analysis</li> <li>o Test of Hypothesis</li> <li>o Why-Why analysis both single line and tree type (P-M analysis)</li> <li>o FMEA (both process and design FMEA) as per 4<sup>th</sup> edition</li> <li>o MSA (both variable and attribute MSA) as per 4<sup>th</sup> edition</li> <li>o SQC and sampling plan</li> <li>o SPC in detail (Box plots, Control charts such as Xbar-R, Xbar-S, X-MR, p, np, c, u chart, pre control chart, zone control chart, cp, cpk, pp, ppk, cm, cmk, normal distribution paper, common &amp; assignable cause, stability, normality, capability, DPO, DPMO, PPM, etc etc.)</li> <li>o How to deal with complex situation and Look for alternatives</li> <li>o Taguchi Loss function and cost of Quality</li> <li>o Small session on Finance for non finance people</li> <li>o Pokayoke and lot more.....</li> </ul>

**Additional Inputs (if somebody wants) can be provided in next phases**

1. Value Engineering
2. Creativity and TRIZ (innovative tools for solutions)
3. TS 16949:2009 with ISO 9001:2008
4. ISO 14001:2004 or OHSAS 18001:2007
5. APQP and PPAP
6. Any other Lean or TPM related training
7. Behavioral or Leadership training

*Important Note-1: This is perhaps the first of its kind program offered by any institute. Our program and its certificate is not recognized with any international institution or body and so don't expect any belt from us. We don't believe in providing belts but we believe in providing strong fundamentals blended with practical aspect so that our participants are more knowledgeable, skilled and practically sharp than most of the black belt certified professionals in "India or abroad". The course however covers all the tools and topics included in a "**Master Black Belt Program**". A qualification certificate will be awarded by "Simply Dhruv" to the successful participants.*

*Important Note-2: Our program is different from others. We build strong fundamentals so that our participants can design their own software. We focus on problem solving and improvement for the organization rather than doing a project for the sake of a certificate.*

*Important Note- 3: No other six-sigma program can offer so many topics in depth and detail and that too*

### Why should you select us?

- ✓ Our programs are very simple, practical, learning with fun and in simple language. We don't talk like a typical professor but talk like a professional coach with a friendly attitude. We believe in handholding and with minimum/ almost no use of software. Our participants can develop SPC type software because of strong fundamentals unlike other trainers who just tell them how to use software.
- ✓ Our program can cover almost all the aspects of a good quality professional.
- ✓ After our program, almost every participant is very clear of tools such as Histogram that is explained in only 4 simple steps. Even 8th pass candidates can make Pareto. Our program helps to develop basic fundamentals like: Why Cpk is required more than 1.33 and why companies still face rejections even after Cpk 1.33. Why Pp is required more than Cp. What is relationship of Cpk with PPM? A total company can never be six-sigma Company etc. We can't say a process will meet specifications if all points in Xbar-R chart are within control limits. Do we require Bias study at shop floor and if yes then how? What is the simplest way to get reproducibility? Confusion of failure mode and cause is removed forever with simple example. There is no cut off limit for RPN. Why do we divide by 6-sigma in CP why not by 8-sigma? Should we calculate Cp for unilateral tolerance? Can Cpk be more than Cp for unilateral tolerance? We have not seen any company, which is using variable sampling plan but still many claim that they do. Cp and Cpk has not come 10 years back but it is there in our variable sample plan (IS 2500), which was written in 1960's. How can we make effective use of DOE in problem solving? People who attend our course and qualified by us are the best in India. We believe that people should apply tools for benefits and not for auditors.
- ✓ Our topic on "DOE" is so simple that people start enjoying it on the first day itself. We also teach "Shainin" techniques, which is very simple and yet very effective. We can make ANOVA and DOE so simple that even BCCI can use them to select players. Who is better Sachin, Ponting, Lara or Sir Don Bradman? It can be proven scientifically using DOE and statistics.
- ✓ We take out simple confusion like where to use Ishikawa diagram and where to do why-why analysis. P-M analysis is made very simple.
- ✓ We focus on fundamental building, which is perhaps the best in world. This helps the participants to select appropriate tools
- ✓ We never encourage participants to use tool just for the sake of using it. In some situations only right questioning technique can analyze the problem. It is not important to use more tools but it is important to use the right methodology and appropriate technique.
- ✓ We always encourage our participants to be honest in data collection, analysis and presentation. This point is very important for long-term sustenance.
- ✓ Faculty, Pankaj Aggarwal has 14 years of industrial working experience and he has worked with his own hands in different functions. He himself has applied these tools in his industrial and professional career. Most of the examples are his-own practical experience. Pankaj Aggarwal is the author of book on problem solving which includes 7 old QC tools, 7 new QC tools and DOE tools based on Shainin Technique.
- ✓ Young and Dynamic faculty. Interest and enthusiasm is same in pre and post lunch session.
- ✓ Lastly, our training program includes exercise in class with more usage of hand rather than computer and when the participants leave the class, they are confident enough to do things without /minimum support of the seniors. We also encourage participants to share their problems in class so that we can guide the methodology using our experience

### You should not select us in case you are looking for:

- ✓ If some body in your company is looking for big names. We will not change faculty in between. We will have single faculty throughout our association with your company. We may invite some people but only for sharing experience not for taking session.
- ✓ If your company is looking for very highly academically qualified faculty. Our faculty is not a professor or Phd or even a post-graduate. He is practical and sharp.
- ✓ We don't have any experience in service sector. But we have consulted FMCG, Engineering, Construction, Automobile, White goods and a textile company so service industry is not a problem at all.
- ✓ If you are looking for hi-fi software for problem solving. We will encourage participants to do exercise with hand or in MS-Excel. so that they can develop this in simple Excel sheets.
- ✓ Lastly, if your company is looking for National or International recognized certified program. There may not be any value to our certificate outside your company (as of now) but we can assure you that our participants will be more knowledgeable, confident and skilled on the same topics than any other certified programs.

