

# Ravindra Marathe, CEng, MSc, PhD

Process Safety & Risk Manager,

GlaxoSmithKline, Irvine, KA11 5AP, UK

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## SUMMARY

I am an ambitious process safety engineering professional with 16-year experience in high hazard process industry plus 4 years in R&D seeking leadership opportunities in safety and risk consulting. I am IChemE Chartered and a Lean Sigma Greenbelt and have proven experience in safety management & working with people across geographies & industries.

## CORE COMPETENCIES

- Safety leadership & risk management - regulatory compliance, EHS management system, ALARP, COMAH, PHR
- Behavioral safety & human factors - competency management, human error, life saving rules, living safety
- Lean Sigma & Change – BAT benchmarking, continuous improvement, Bowties, incident investigation, deep dives
- Process safety engineering – DSEAr/ AtEx, inertion, dispersion, electrostatics, asphyxiation, OBRA, air emissions etc.

## EMPLOYMENT HISTORY

GlaxoSmithKline, Irvine, UK		
Process Safety & Risk Manager		2013- present
<ul style="list-style-type: none"><li>- Delivered y-o-y reduction in safety incidents &amp; loss events for 8 years via PSM program.</li><li>- Shared best practice on EHS and engineering standards at GSK network PS Community of Practice.</li><li>- Chaired strategic safety assessments incl. PHR, HAZID, ALARP as well as HAZOP, What If, SIL, LOPA, Functional safety.</li><li>- Conducted L1/ L2 audits and barrier effectiveness verification at Irvine and key supplier offsite.</li><li>- Deployed bowtie model to risk management at Irvine and drove risk reduction projects.</li><li>- Developed and deployed PS Competency development framework incl training, workshops, e-learning, videos etc.</li><li>- Delivered high safety maturity for site in audits by internal and external auditors, regulator &amp; insurer.</li><li>- Added value by employed Lean Sigma tools, root cause, barrier analysis, for incident investigations.</li><li>- Improved work practices and reduced risk following safety critical task analysis, human reliability assessments.</li></ul>		
GlaxoSmithKline, Irvine, UK		
Senior Process Engineer		2007- 2012
<ul style="list-style-type: none"><li>- Implemented efficiency and safety improvement solutions incl. capacity expansion, pressure relief, PLC upgrade</li><li>- Developed site standard for plant commissioning and Operational qualification.</li><li>- Modified design specifications, P&amp;IDs, HAC drawings for change control &amp; projects.</li><li>- Standardised process engineering ways of working for software downloads and change management.</li></ul>		
Eurochem Corporation, Singapore		
Scientist – catalysis R&D		2005 - 2007
<ul style="list-style-type: none"><li>- Executed catalyst synthesis &amp; testing program for innovative syngas hydrogenation.</li><li>- Designed and commissioned reactor system, operation and data analysis.</li></ul>		
Birla Institute of Technology & Science (BITS) Pilani, India		
Assistant Lecturer of Chemical Engineering		2001
Taught courses & laboratory sessions in Process Control and Measurement Techniques.		
Reliance Petroleum Ltd, Jamnagar Refinery India		
Process Engineer – crude oil		1998 - 1999
<ul style="list-style-type: none"><li>- Operational qualification and commissioning of crude oil &amp; solvent storage and piping system.</li><li>- Plant troubleshooting, safety improvements, tank level system calibration, oil loss calculations.</li></ul>		
Hindustan Unilever and Godrej Soaps, India		
Process Engineering Intern – FMCG manufacturing		1996 - 1997
<ul style="list-style-type: none"><li>- Mass and Energy balance calculations for soap manufacture process.</li><li>- Manufacturing and packaging line scheduling study.</li></ul>		

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## KEY BEHAVIOURS AND SKILLS

### Team building and Knowledge Transfer

- \* Managed a team of process engineers at Eurochem, safety engineer and interns at GSK Irvine.
- \* Led Irvine process engineering to the network energy kaizen and solvent recovery partnership with other sites.
- \* Delivered capability improvement via competency framework, training programs and workshops.
- \* Worked with external consultants on powder testing, HAC, OBRA, PHAST & implemented recommendations.

### Leadership and working across boundaries

- \* Engaged with site SLT and Primary & Antibiotics EHS Governance forums for escalation and response to issues.
- \* Led major accident Deep dives, L1, L2 audits, GES gap analysis, hosted HSE inspections, audit & assurance visits.
- \* Employed Lean Sigma tools in change management, energy and waste minimization.
- \* Deployed best in network standards on PHIRA, Bowtie, basis of safety and human factors on site and PAM CoP.

## EDUCATION

### MSc in Safety and Risk Management – *Distinction*

Heriot Watt University, Edinburgh UK

*Focus on human factors in major accident hazards*

**Certificate in Innovation and Entrepreneurship**, University of Edinburgh, UK

### PhD in Chemical Engineering

National University of Singapore

*Focus on adsorption based natural gas separation*

### M Eng in Chemical Engineering

Birla Institute of Technology & Science (BITS), Pilani, India

*Focus on Trickle bed reactors*

### B Tech in Chemical Technology – *Distinction*

Laxminarayan Institute of Technology (LIT), Nagpur University, India.

## AWARDS & ACHIEVEMENTS

<b>2013 - 20</b>	<b>GSK values awards and recognition</b> - numerous
<b>2012</b>	<b>Lean Sigma Green belt</b> , GSK.
<b>2010</b>	Team member in GSK <b>President's Roll of Honour</b> for the Irvine Energy Program.
<b>2009</b>	GSK <b>Excellence Recognition Award</b> for Energy Program and Solvent Recovery baseline.
<b>2008</b>	Irvine <b>Excellence Recognition Award</b> for OQ Standard Ways of Working at Irvine.
<b>2001-2005</b>	<b>Full Doctoral Fellowship</b> at the National University of Singapore.

IChemE Chartered Chemical Engineer 99922941

IChemE Professional Process Safety Engineer 99922941

Nationality – British