

**Factsheet**

*WDA and 5 strategic partners have jointly signed a Memorandum of Understanding to launch a new series of Advanced Manufacturing masterclasses to future-proof employees' capabilities in support of Future Skills for Advanced Manufacturing.*

**About the Future Skills for Advanced Manufacturing Memorandum of Understanding**

- The Future Skills for Advanced Manufacturing MOU signifies the commitment from WDA's strategic partners to launch a new series of Advanced Manufacturing masterclasses to the industry.
- The MOU is signed by the following parties:
  - Advanced Remanufacturing and Technology Centre (ARTC), Agency for Science, Technology and Research (A\*STAR)
  - Centre for Optical and Laser Engineering (COLE), Nanyang Technological University (NTU)
  - Institute of High Performance Computing (IHPC), A\*STAR
  - Nanyang Polytechnic (NYP)
  - Singapore Centre for 3D Printing (SC3DP), NTU
  - Singapore Workforce Development Agency (WDA)

The new series of Advanced Manufacturing masterclasses and events are developed by local and international experts, and will support upskilling of the workforce with future skills in order to embrace the next generation of Advanced Manufacturing. Singapore Citizens and Singapore Permanent Residents will be eligible for WDA funding support for these programmes.

- The programmes are mainly targeted at Technical Managers, Engineers, Assistant Engineers, Product Designers and Technical Specialists.
- It allows small and medium-sized enterprises (SMEs) as well as multinational corporations (MNCs) to better prepare their workforce for the new industry revolution. This allows them to gain insights in areas such as Advanced Robotics & Automation, Additive Manufacturing, Big Data Analytics & Computing, Optical and Laser Engineering and Advanced Materials.
- More than 400 workers from various manufacturing sectors such as Precision Engineering, Aerospace, Marine & Offshore Engineering and Oil & Gas sectors are expected to benefit from the Advanced Manufacturing Series Masterclass over a one-year period.

**Future Skills for Advanced Manufacturing Events for 2016**

The masterclasses will be rolled out progressively over one year and the topics will cover key areas such as Advanced Robotics & Automation, Additive Manufacturing, Computing, Optical and Laser Engineering and Advanced Materials.

<b>No.</b>	<b>Partner(s)</b>	<b>Title (Masterclasses/Seminars/Workshops)</b>	<b>Indicative Date of Commencement</b>
1	<b>Advanced</b>	Conference on Advanced Robotics	Q3 – Q4 2016

	<b>Remanufacturing and Technology Centre (ARTC)</b>	Masterclasses in Additive Manufacturing	Q2 – Q4 2016
2	<b>Centre for Optical and Laser Engineering (COLE)</b>	Masterclass in Optical Engineering	29 February – 4 March 2016
		Workshop in Optical and Laser Engineering	20 – 22 June 2016
3	<b>Institute of High Performance Computing (IHPC)</b>	Masterclass in Simulation/Optimisation Tools for Product Development (for SMEs) – Fatigue and Fracture (Finite Element Method)	April 2016
		Masterclass in Simulation/Optimisation Tools for Product Development (for SMEs) – Introduction to Finite Element Method: Theory & Applications	April 2016
		Masterclass in Simulation/Optimisation Tools for Product Development (for SMEs) – Mechanical Vibrations (Finite Element Method)	May 2016
4	<b>Nanyang Polytechnic (NYP)</b>	Workshop in Additive Manufacturing	Q2 2016
5	<b>Singapore Centre for 3D Printing (SC3DP)</b>	Seminar in 3D Printing	27 April 2016
		Masterclass in Bio-Printing	7, 8 & 11 April 2016
		2 <sup>nd</sup> International Conference on Progress in Additive Manufacturing (Pro-AM)	16 – 19 May 2016
		2016 Singapore International 3D Printing Competitions	8 April 2016 (closing date)

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