



## **FACTSHEET FOR TECHNICAL ENGINEER DIPLOMA (TED) IN MACHINE TECHNOLOGY PROJECT FAIR 2017**

### **TED Project Fair 2017**

The Technical Engineer Diploma (TED) in Machine Technology Project Fair is an annual event that showcases completed Final Year Projects (FYP) of the graduating TED students to industry partners, employers and guests.

The graduating TED students have been engaged in product design and development in the last nine months, covering all aspects including brainstorming, conceptualisation, design and production as well as pitching and presentation of their projects.

The TED Project Fair is a key component of the “Staatlich Geprüfter Techniker” (State Certified Technical Engineer) course offered by our collaboration partner, Gottlieb Daimler Schule 1, Baden Württemberg, Germany.

At the 8<sup>th</sup> edition of the TED Project Fair this year, we are featuring 13 innovative projects and one student exchange project with Gottlieb Daimler Schule 1, Baden Württemberg, Germany.

### **About the Technical Engineer Diploma (TED) in Machine Technology**

The introduction of the first ITE Diploma, the Technical Engineer Diploma in Machine Technology, in partnership with the Ministry of Education, Youth and Sports, Baden Württemberg, Germany, was announced at the ITE Graduation Ceremony 2007. Under this initiative, ITE will work with Gottlieb Daimler Schule (GDS), to provide training in ITE leading to the Technical Engineer Diploma.

### **Rationale**

- To produce highly skilled and specialised manpower to support the demand for Precision Engineering technologists in support of Singapore’s machinery and systems manufacturing cluster – an area of high growth identified by the Economic Development Board.
- To provide more progression pathways for ITE graduates.

### **Collaboration Background**

In June 1991, ITE signed a five year Memorandum of Understanding (MOU) to establish bilateral co-operation with the Ministry of Education, Youth & Sports (MEYS), Baden Württemberg, Germany. The MOU was renewed for the fourth time in 2012. At the MOU Signing in 2006 in Germany, Mr Gan Kim Yong, then Minister of State for Education & Manpower, suggested that ITE explored possible areas of collaboration to jointly offer courses leading to certifications that could articulate into the German universities of Applied Sciences.

### **Implementation date of TED in Machine Technology**

April 2008

### **Training Mode**

Full-Time

### **Duration**

2 years of College-based training and 1.5 years of work experience

### **Course Venue**

ITE College Central

### **Entry Requirements**

Applicants for the Technical Engineer Diploma in Machine Technology course need to be Singapore Citizens with the following ITE qualifications:

Course	Grade Point Average (GPA)
<i>Higher Nitec in Advanced Manufacturing</i> <i>Higher Nitec in Engineering with Business</i> <i>Higher Nitec in Mechanical Engineering</i> <i>Higher Nitec in Mechatronics Engineering</i> <i>Higher Nitec in Precision Engineering</i>	GPA 2.0 and above
<i>Nitec in Aerospace Machining Technology</i> <i>Nitec in Laser &amp; Tooling Technology</i> <i>Nitec in Machine Technology</i> <i>Nitec in Mechanical Technology</i> <i>Nitec in Mechatronics</i> <i>Nitec in Mechatronics (Automation Technology)</i> <i>Nitec in Mechatronics (Equipment Assembly)</i> <i>Nitec in Mechatronics (Medical Technology)</i> <i>Nitec in Medical Manufacturing Technology</i> <i>Nitec in Precision Engineering (Injection Mould)</i> <i>Nitec in Precision Engineering (Precision Machining)</i> <i>Nitec in Precision Engineering (Press Tool)</i> <i>Nitec in Precision Engineering (Tool &amp; Mould)</i>	GPA 3.0 and above

For other Engineering courses, applicants are required to meet minimum GPA and have at least two years of work experience in the Precision Engineering areas such as Machining and Machine Assembly.

Course	Grade Point Average (GPA)
<i>Higher Nitec in Aerospace Engineering</i> <i>Higher Nitec in Civil &amp; Structural Engineering Design</i> <i>Higher Nitec in Electrical Engineering</i> <i>Higher Nitec in Electronics Engineering</i> <i>Higher Nitec in Facility Management</i>	GPA 2.0 and above and 2 years of relevant work experience

Course	Grade Point Average (GPA)
<i>Higher Nitec</i> in Facility Systems Design <i>Higher Nitec</i> in Marine Engineering <i>Higher Nitec</i> in Marine & Offshore Technology <i>Higher Nitec</i> in Mechanical & Electrical Engineering Design <i>Higher Nitec</i> in Offshore & Marine Engineering Design <i>Higher Nitec</i> in Process Plant Design <i>Higher Nitec</i> in Rapid Transit Engineering	
<i>Nitec</i> in Aerospace Avionics <i>Nitec</i> in Aerospace Technology <i>Nitec</i> in Air-Conditioning & Refrigeration Technology <i>Nitec</i> in Automotive Technology (Heavy Vehicles) <i>Nitec</i> in Automotive Technology (Light Vehicles) <i>Nitec</i> in Building Drafting <i>Nitec</i> in Building Services <i>Nitec</i> in Building Services Technology <i>Nitec</i> in Electrical Technology (Lighting and Sound) <i>Nitec</i> in Electrical Technology (Power & Control) <i>Nitec</i> in Electronics (Computer & Networking) <i>Nitec</i> in Electronics (Instrumentation) <i>Nitec</i> in Electronics (Mobile Devices) <i>Nitec</i> in Electronics (Wireless LAN) <i>Nitec</i> in Facility Technology (Air-Conditioning & Refrigeration) <i>Nitec</i> in Facility Technology (Landscaping Services) <i>Nitec</i> in Facility Technology (Mechanical & Electrical Services) <i>Nitec</i> in Facility Technology (Vertical Transportation) <i>Nitec</i> in Mechanical Technology <i>Nitec</i> in Rapid Transit Technology	<p style="text-align: center;">GPA 3.0 and above and 2 years of relevant work experience</p>

Shortlisted applicants are required to attend an interview.

### **Progression Opportunities**

Graduates of the TED in Machine Technology course will be eligible to apply for admission into the related NUS Bachelor of Technology Programmes, as well as universities of Applied Sciences in Germany. They may be admitted provided they meet the entry requirements specified for the course and university.

### **Career Prospects**

TED graduates can look forward to a mean gross starting salary of \$2,100. Some of the job titles held by Machine Technology graduates include Assistant Engineer and Supervisor. There are excellent opportunities for career development and advancements to supervisory positions and beyond.



### **Intake Capacity**

50 students per year, subject to periodic reviews in accordance with industry requirements.

### **Course Approach and Curriculum**

The TED in Machine Technology course has a very high practical content comprising laboratory work, assignments and project work. The course curriculum is modelled along that of “Staatlich Geprüfter Techniker” (or State Certified Technical Engineer) course conducted by Gottlieb-Daimler Schule.

### **Certification**

The Diploma will be issued by MEYS and will be similar to the one awarded in Germany. TED Graduates will receive their Diplomas at ITE’s graduation ceremonies. ITE and MEYS will also issue a joint transcript to all graduates, reflecting the grades attained in the course.