

## IMPLEMENTING GRID COMPUTING CERTIFICATION COURSE

### Introduction

The course is designed to provide participants with the ability to design, develop and manage effective Grid Computing solutions. The course emphasizes on a practical-oriented approach in training with extensive hands-on opportunities.

It covers the GCCC Part 2 advance common modules and includes topics on Grid Programming, Meta-Schedulers, Resource Management and Grid Workflow Management. It is intended for professionals who would like to acquire more in-depth knowledge on Grid Computing. It is particularly suitable for industry professionals working in Grid Computing area, system administrators and system developers.

### Certification

A Certificate of Participation will be issued to every participant who has at least 75% attendance. An official Grid Computing Competency Certification (Part 2) will be awarded to participants who have fulfilled the GCCC part 2 evaluation requirements. Please refer to [http://www.ngp.org.sg/gcccc/gcccc\\_part2.html](http://www.ngp.org.sg/gcccc/gcccc_part2.html) for details.

The Grid Computing Competency Certification (GCCC) is developed by the National Grid Office (NGO) to provide a benchmark for the competency in Grid Computing. It will help to develop capabilities of the Infocomm professionals in Grid Computing to enable them to meet the needs of the industry.

The NGO is the Certification Body for GCCC. GCCC Part 2 is aimed at providing in-depth knowledge and practical experiences implementing grid computing infrastructure and services.

### Targeted Participants

All participants should have essential working knowledge of Linux and TCP/IP networking. Programming experience in Java is preferred.

### Course Fee & Funding

The course fee is S\$1,200 (incl. GST) per participant.

#### **CITREP:**

CITREP supports up to 50% of course fees capped at \$2500 per trainee per course. Terms & conditions apply. For more info, please refer to IDA website at <http://www.ida.gov.sg/idaweb/manpower> (click "an infocomm professional").

CITREP0607/MR/08/004

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### Course Outline

#### Globus Programming

- Globus Toolkit
- Java COG Toolkit
- Globus Services Programming

#### Meta Schedulers

- Local Workload Schedulers
- Meta-Schedulers
- Using Globus Toolkit and Schedulers

#### Resource Management

- Resource Maintenance, Allocation & Monitoring
- Algorithms and Tools for Resource Management System
- Resource Management & Grid Economics
- MDS, a Resource Management in Globus Toolkit
  - > Aggregator Framework
  - > Index Service
  - > Trigger Service
  - > WebMDS
- Resource Brokering

#### Grid Workflow Management

- Grid Workflow technologies
- Using Karajan Workflow
- Workflow Management tool
- Case Studies

### Training Schedule

**Date:** 3-5 Oct 06 (Tue to Thu, 3 days)

**Time:** 9.00am to 5.30pm

**Closing Date:** 15<sup>th</sup> Sep 2006

### Application & Enquiries

Applicants are to submit their application online at <http://www.nyp.edu.sg/pdc>  
For course enquiries, please contact: Ms Cecilia Oh, Tel: 6550 1612 or  
E-mail: Cecilia\_Oh@nyp.gov.sg

### Training Venue

Blk L Level 4 L445  
School of Information Technology  
Nanyang Polytechnic  
180 Ang Mo Kio Avenue 8  
Singapore 569830  
(next to Yio Chu Kang MRT Station)