European Computer Competence Certificate

ECCC SYLLABUS

MODULE: **IT M7** MOBILE TECHNOLOGIES
LEVEL: ADVANCED (**C**)

A range of exam in the module contains all tasks from medium level (**B**) plus competences pointed out below.

COMPETENCE GROPUP	COMPETENCE WITHIN ECCC STANDRADS	
1. Mobile phones	1.1.	JavaME platform
	1.2.	Application of JavaME language
	1.3.	Programming and starting environment of JavaME
	1.4.	IDE and emulator service
	1.5.	Process of creating JavaME applications
	1.6.	Typical elements of JavaME application
2. Wireless networks	2.1.	Enlarging a reach of working of wireless network
	2.2.	Advanced configuration of router
	2.3.	Encryption of wireless networks
	2.4.	Wireless network access limitation
	2.5.	Providing quality in services if wireless network (QoS)
3. Mobile devices	3.1.	Work with emulator of mobile devices
	3.2.	Connecting with remote resources
	3.3.	IM communication (Instant messaging)
4. Global Positioning System (GPS)	4.1.	Using GPS in mobile devices
	4.2.	Planning itinerary from level of computer and mobile device
	4.3.	Synchronisation of itinerary with mobile device
	4.4.	Geotagging of photos

Preferring programming environment:
1. WTK 2.5.x or WTK 3.x
2. Eclipse Pulsar for Mobile Developers
3. Firmware to router makes possible:
   - Configuring DHCP server
   - Configuring DMZ
   - Redirecting ports
   - Configuring encryption of wireless network (WPA/WEP)
   - Firewall configuration
   - Configuring QoS
4. Android SDK r07
5. Jabiru, ConnectBot, Jabbim
6. Google Apps (Gmail, Google Talk, Google Maps)
7. Graphic programme able to display data EXIF photos

Additional requires:
1. Necessity of providing several gmail account and account on jabber.org server
2. Necessity of providing connection to the Internet