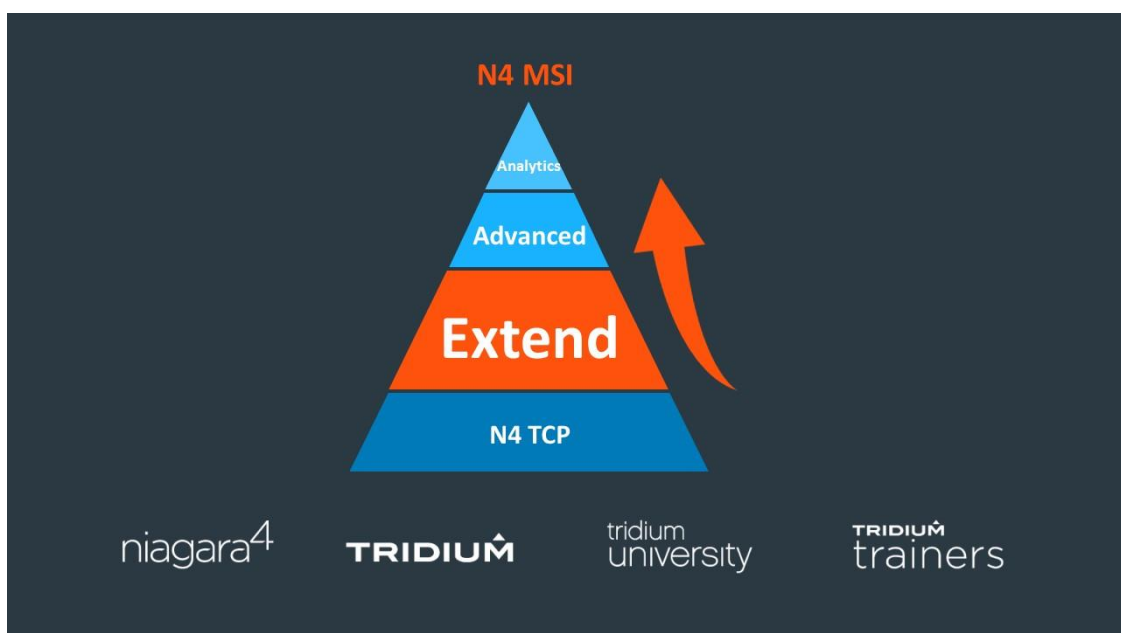


Tridium Niagara 4 Extend Certification



Why thinktech?

- We are the only Tridium Niagara 4 certified all-training partner in Australia and wider APAC
- We limit all our virtual certification classes to 6 attendees and face-2-face to 12 to allow for the finest learning experience and providing the best student-to-trainer ratio in the world
- We are a dedicated training organization, specializing in technical disciplines and providing training courses in the areas of engineering,

networking, Smart Buildings, IoT, digitalization, automation, cybersecurity and related subjects

- We are serving educational, commercial, IT, data centre, retail, financial industries among others
- Our team is available to provide local and tailored customer support
- We offer attractive pricing and multiple training dates

Course description

Niagara 4 Extend Certification training course expands and enhances your knowledge of the most integrated system in the world.

- Designed for system integrators and engineers with experience and Niagara 4 TCP certification completed.
- The course is delivered over 5 days.
- All students are encouraged to work through series of labs designed to reinforce learning.
- All demonstrations are provided using real life software environment.

The course ends with the practice project testing the knowledge of main Niagara concepts covered as part of the course, after passing the test, the attendee is awarded the Tridium Niagara 4 Extend Certified status. The certificate demonstrates the expertise to use Niagara 4 extended functionality.

N4 Extend (5 days program)

Day 1 – Big Data Day

- Security
 - Station security - passphrase / passwords
 - Security service
- Smart tagging
 - Tag rules / auto-tagging
 - Tagging new and existing stations
 - nHaystack module and RESTful API
 - Haystack 4
 - Smart NEQL search
- Useful hierarchies



- Smart menus
- Grouping data in right hierarchies
 - Granting access to relevant information only
- BQL
 - Syntax
 - How to use queries, BQL tools and tables effectively
- Program service
 - Advanced examples of use

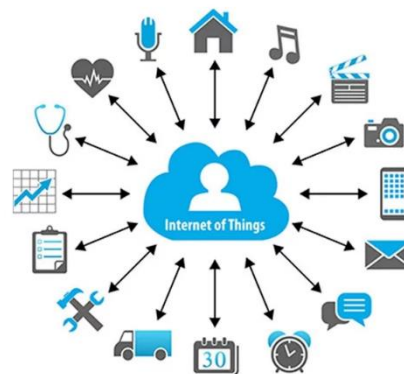
Day 2 – Smart Graphics Day

- Graphics deep dive
 - How to design user friendly graphics
 - BFORMAT explained
 - Useful BFORMAT examples
 - Graphics relativisation
 - Advanced px include
 - Tabbed panes
 - Dashboards
 - Tag based graphics
 - SVG



Day 3 – Integration Day

- Module signing
 - Example of code signing SSL certificate creation
 - Module signing
 - Program signing
- Integration workshop
 - IOT protocols
 - SNMP
 - MQTT – in & out
 - JSON – in & out
 - OPC – in & out
 - HTTP Driver API – in & out



- SQL + Archive History Provider

Day 4 – Data Access Day

- Templates
 - Creating and deploying a fully integrated template
 - Bulk deployment from Excel
- Brick Schema
 - Setting up dictionary
 - Hierarchies and relations
 - API output
- Reports
 - Manual reports
 - Auto-reports generation
- History
 - User friendly history navigation
 - Use of metadata
- Alarms
 - Correct alarm management and display
 - Real example of e-mail alarm service setup
- Niagara diagnostics
 - Event service
 - SPY feature
 - Monitoring main system parameters



Day 5 – Practice Day

- Test project - Small project built by yourself

