



## DF/Net Software ULC

55 Head Street, Suite 403  
Dundas, Ontario, Canada L9H 3H8  
905-522-3282  
www.dfnetresearch.com

## DFdiscover Web API - Course Outline

### Course Description (2 Days)

This course offers an introduction to the DFdiscover Web API by explaining the general concept of a web API, unique features of the DFdiscover Web API, describing key elements required to use the API and methods to get data from and push data to DFdiscover using the API. The course provides hands-on experience through the development of a web-based application that extracts and presents data from a DFdiscover study database.

Students will leave this course with a solid understanding of the DFdiscover Web API, how it can be used to build solutions that further leverage DFdiscover, and first-hand experience building a sample solution that can be deployed in their environment.

### API Basics

- What is an API?
- Introduction to the DFdiscover Web API
- Authentication process
- Security (SSL, JWT and Encryption)
- Session management
- Supported services
- Composing API requests
- Exploding API responses

### API Hands-on Training

- Web application architecture (LAMP)
- High-level programming guide
- Best practices
- Sample request to fetch data
- Extracting and parsing JSON data
- Sending data to update database records
- Verifying receipt and storage of data
- Requests to multiple studies
- Administrator API requests

### Resources

- Course notes
- DFws documentation
- E-mail and telephone support

### Pre-requisites

- Thorough understanding of DFdiscover concepts
- Programming experience, ideally in web-development using PHP and Javascript.