Datastat Research
Building Capacity in Training and Research

# DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

CHEMICAL ENGINEERING

# Advanced Heat Transfer Applications Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

## PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
**10 Days Practical Hands-on**

DELIVERY MODES
**In-Person Class & Live Virtual**

CERTIFICATION
**Accredited Certificate of Completion**

INTAKES / DATES
**Multiple Cohort Schedules Included**

PREPARED FOR:

**Valued Participant**

Email: training@datastatresearch.org | Issued: November 26, 2026

**Academic & Professional Training Year: 2026**

**DATASTAT TRAINING INSTITUTE**

P.O. Box 102802-00101, Nairobi, Kenya

Training Centers: Nairobi • Mombasa • Kigali • Dubai • Live Virtual Academy

Tel: +254 724 527 104 | +254 734 969 612

Email: training@datastatresearch.org

www.datastatresearch.org

# Advanced Heat Transfer Applications Training Course

**Chemical Engineering • 10 Days Intensive • Accredited Certification**

## Course Overview

Advanced Heat Transfer Applications Training Course provides participants with cutting-edge knowledge and practical skills in conduction, convection, radiation, heat exchanger optimization, computational thermal analysis and industrial heat management systems to enable them maximize operational performance and cost.

### Key Skills & Software Tools Covered

Conduction • convection • radiation • Thermal system design

## Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

| TRAINING DATES | LOCATION / VENUE | FORMAT / DURATION | INVESTMENT (FEE) |
|---|---|---|---|
| **7 Dec 2026 – 18 Dec 2026** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **7 Dec 2026 – 18 Dec 2026** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **7 Dec 2026 – 18 Dec 2026** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **7 Dec 2026 – 18 Dec 2026** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **7 Dec 2026 – 18 Dec 2026** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **7 Dec 2026 – 18 Dec 2026** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **7 Dec 2026 – 18 Dec 2026** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **7 Dec 2026 – 18 Dec 2026** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **7 Dec 2026 – 18 Dec 2026** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **21 Dec 2026 – 1 Jan 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **21 Dec 2026 – 1 Jan 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **21 Dec 2026 – 1 Jan 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **21 Dec 2026 – 1 Jan 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **21 Dec 2026 – 1 Jan 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **21 Dec 2026 – 1 Jan 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **21 Dec 2026 – 1 Jan 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **21 Dec 2026 – 1 Jan 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **21 Dec 2026 – 1 Jan 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **4 Jan 2027 – 15 Jan 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **4 Jan 2027 – 15 Jan 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **4 Jan 2027 – 15 Jan 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **4 Jan 2027 – 15 Jan 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |

| | | | |
|---|---|---|---|
| **4 Jan 2027 – 15 Jan 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **4 Jan 2027 – 15 Jan 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **4 Jan 2027 – 15 Jan 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **4 Jan 2027 – 15 Jan 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **4 Jan 2027 – 15 Jan 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **18 Jan 2027 – 29 Jan 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **18 Jan 2027 – 29 Jan 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **18 Jan 2027 – 29 Jan 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **18 Jan 2027 – 29 Jan 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **18 Jan 2027 – 29 Jan 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **18 Jan 2027 – 29 Jan 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **18 Jan 2027 – 29 Jan 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **18 Jan 2027 – 29 Jan 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **18 Jan 2027 – 29 Jan 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **1 Feb 2027 – 12 Feb 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **1 Feb 2027 – 12 Feb 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **1 Feb 2027 – 12 Feb 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **1 Feb 2027 – 12 Feb 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **1 Feb 2027 – 12 Feb 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **1 Feb 2027 – 12 Feb 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **1 Feb 2027 – 12 Feb 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **1 Feb 2027 – 12 Feb 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **1 Feb 2027 – 12 Feb 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **15 Feb 2027 – 26 Feb 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **15 Feb 2027 – 26 Feb 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **15 Feb 2027 – 26 Feb 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **15 Feb 2027 – 26 Feb 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **15 Feb 2027 – 26 Feb 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **15 Feb 2027 – 26 Feb 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **15 Feb 2027 – 26 Feb 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **15 Feb 2027 – 26 Feb 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **15 Feb 2027 – 26 Feb 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |

| | | | |
|---|---|---|---|
| **1 Mar 2027 – 12 Mar 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **1 Mar 2027 – 12 Mar 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **1 Mar 2027 – 12 Mar 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **1 Mar 2027 – 12 Mar 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **1 Mar 2027 – 12 Mar 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **1 Mar 2027 – 12 Mar 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **1 Mar 2027 – 12 Mar 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **1 Mar 2027 – 12 Mar 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **1 Mar 2027 – 12 Mar 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **15 Mar 2027 – 26 Mar 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **15 Mar 2027 – 26 Mar 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **15 Mar 2027 – 26 Mar 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **15 Mar 2027 – 26 Mar 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **15 Mar 2027 – 26 Mar 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **15 Mar 2027 – 26 Mar 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **15 Mar 2027 – 26 Mar 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **15 Mar 2027 – 26 Mar 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **15 Mar 2027 – 26 Mar 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **29 Mar 2027 – 9 Apr 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **29 Mar 2027 – 9 Apr 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **29 Mar 2027 – 9 Apr 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **29 Mar 2027 – 9 Apr 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **29 Mar 2027 – 9 Apr 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **29 Mar 2027 – 9 Apr 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **29 Mar 2027 – 9 Apr 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **29 Mar 2027 – 9 Apr 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **29 Mar 2027 – 9 Apr 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **12 Apr 2027 – 23 Apr 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **12 Apr 2027 – 23 Apr 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **12 Apr 2027 – 23 Apr 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **12 Apr 2027 – 23 Apr 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **12 Apr 2027 – 23 Apr 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |

| | | | |
|---|---|---|---|
| **12 Apr 2027 – 23 Apr 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **12 Apr 2027 – 23 Apr 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **12 Apr 2027 – 23 Apr 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **12 Apr 2027 – 23 Apr 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **26 Apr 2027 – 7 May 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **26 Apr 2027 – 7 May 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **26 Apr 2027 – 7 May 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **26 Apr 2027 – 7 May 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **26 Apr 2027 – 7 May 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **26 Apr 2027 – 7 May 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **26 Apr 2027 – 7 May 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **26 Apr 2027 – 7 May 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **26 Apr 2027 – 7 May 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **10 May 2027 – 21 May 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **10 May 2027 – 21 May 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **10 May 2027 – 21 May 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **10 May 2027 – 21 May 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **10 May 2027 – 21 May 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **10 May 2027 – 21 May 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **10 May 2027 – 21 May 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **10 May 2027 – 21 May 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **10 May 2027 – 21 May 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **24 May 2027 – 4 Jun 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **24 May 2027 – 4 Jun 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **24 May 2027 – 4 Jun 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **24 May 2027 – 4 Jun 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **24 May 2027 – 4 Jun 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **24 May 2027 – 4 Jun 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **24 May 2027 – 4 Jun 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **24 May 2027 – 4 Jun 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **24 May 2027 – 4 Jun 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **7 Jun 2027 – 18 Jun 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |

| | | | |
|---|---|---|---|
| **7 Jun 2027 – 18 Jun 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **7 Jun 2027 – 18 Jun 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **7 Jun 2027 – 18 Jun 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **7 Jun 2027 – 18 Jun 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **7 Jun 2027 – 18 Jun 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **7 Jun 2027 – 18 Jun 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **7 Jun 2027 – 18 Jun 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **7 Jun 2027 – 18 Jun 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **21 Jun 2027 – 2 Jul 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **21 Jun 2027 – 2 Jul 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **21 Jun 2027 – 2 Jul 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **21 Jun 2027 – 2 Jul 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **21 Jun 2027 – 2 Jul 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **21 Jun 2027 – 2 Jul 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **21 Jun 2027 – 2 Jul 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **21 Jun 2027 – 2 Jul 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **21 Jun 2027 – 2 Jul 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **5 Jul 2027 – 16 Jul 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **5 Jul 2027 – 16 Jul 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **5 Jul 2027 – 16 Jul 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **5 Jul 2027 – 16 Jul 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **5 Jul 2027 – 16 Jul 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **5 Jul 2027 – 16 Jul 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **5 Jul 2027 – 16 Jul 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **5 Jul 2027 – 16 Jul 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **5 Jul 2027 – 16 Jul 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **19 Jul 2027 – 30 Jul 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **19 Jul 2027 – 30 Jul 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **19 Jul 2027 – 30 Jul 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **19 Jul 2027 – 30 Jul 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **19 Jul 2027 – 30 Jul 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **19 Jul 2027 – 30 Jul 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |

| | | | |
|---|---|---|---|
| **19 Jul 2027 – 30 Jul 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **19 Jul 2027 – 30 Jul 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **19 Jul 2027 – 30 Jul 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **2 Aug 2027 – 13 Aug 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **2 Aug 2027 – 13 Aug 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **2 Aug 2027 – 13 Aug 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **2 Aug 2027 – 13 Aug 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **2 Aug 2027 – 13 Aug 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **2 Aug 2027 – 13 Aug 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **2 Aug 2027 – 13 Aug 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **2 Aug 2027 – 13 Aug 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **2 Aug 2027 – 13 Aug 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **16 Aug 2027 – 27 Aug 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **16 Aug 2027 – 27 Aug 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **16 Aug 2027 – 27 Aug 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **16 Aug 2027 – 27 Aug 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **16 Aug 2027 – 27 Aug 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **16 Aug 2027 – 27 Aug 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **16 Aug 2027 – 27 Aug 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **16 Aug 2027 – 27 Aug 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **16 Aug 2027 – 27 Aug 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **30 Aug 2027 – 10 Sep 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **30 Aug 2027 – 10 Sep 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **30 Aug 2027 – 10 Sep 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **30 Aug 2027 – 10 Sep 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **30 Aug 2027 – 10 Sep 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **30 Aug 2027 – 10 Sep 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **30 Aug 2027 – 10 Sep 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **30 Aug 2027 – 10 Sep 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **30 Aug 2027 – 10 Sep 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **13 Sep 2027 – 24 Sep 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **13 Sep 2027 – 24 Sep 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |

| | | | |
|---|---|---|---|
| **13 Sep 2027 – 24 Sep 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **13 Sep 2027 – 24 Sep 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **13 Sep 2027 – 24 Sep 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **13 Sep 2027 – 24 Sep 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **13 Sep 2027 – 24 Sep 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **13 Sep 2027 – 24 Sep 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **13 Sep 2027 – 24 Sep 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **27 Sep 2027 – 8 Oct 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **27 Sep 2027 – 8 Oct 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **27 Sep 2027 – 8 Oct 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **27 Sep 2027 – 8 Oct 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **27 Sep 2027 – 8 Oct 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **27 Sep 2027 – 8 Oct 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **27 Sep 2027 – 8 Oct 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **27 Sep 2027 – 8 Oct 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **27 Sep 2027 – 8 Oct 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **11 Oct 2027 – 22 Oct 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **11 Oct 2027 – 22 Oct 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **11 Oct 2027 – 22 Oct 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **11 Oct 2027 – 22 Oct 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **11 Oct 2027 – 22 Oct 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **11 Oct 2027 – 22 Oct 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **11 Oct 2027 – 22 Oct 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **11 Oct 2027 – 22 Oct 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **11 Oct 2027 – 22 Oct 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **25 Oct 2027 – 5 Nov 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **25 Oct 2027 – 5 Nov 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **25 Oct 2027 – 5 Nov 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **25 Oct 2027 – 5 Nov 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **25 Oct 2027 – 5 Nov 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **25 Oct 2027 – 5 Nov 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **25 Oct 2027 – 5 Nov 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |

| | | | |
|---|---|---|---|
| **25 Oct 2027 – 5 Nov 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **25 Oct 2027 – 5 Nov 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **8 Nov 2027 – 19 Nov 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **8 Nov 2027 – 19 Nov 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **8 Nov 2027 – 19 Nov 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **8 Nov 2027 – 19 Nov 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **8 Nov 2027 – 19 Nov 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **8 Nov 2027 – 19 Nov 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **8 Nov 2027 – 19 Nov 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **8 Nov 2027 – 19 Nov 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **8 Nov 2027 – 19 Nov 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **22 Nov 2027 – 3 Dec 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **22 Nov 2027 – 3 Dec 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **22 Nov 2027 – 3 Dec 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **22 Nov 2027 – 3 Dec 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **22 Nov 2027 – 3 Dec 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **22 Nov 2027 – 3 Dec 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **22 Nov 2027 – 3 Dec 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **22 Nov 2027 – 3 Dec 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **22 Nov 2027 – 3 Dec 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |
| **6 Dec 2027 – 17 Dec 2027** | Nairobi | Classroom / 10d | **$3,000 USD / KES 220,000** |
| **6 Dec 2027 – 17 Dec 2027** | Kigali | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **6 Dec 2027 – 17 Dec 2027** | Dubai | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **6 Dec 2027 – 17 Dec 2027** | Cape Town | Classroom / 10d | **$9,000 USD / KES 220,000** |
| **6 Dec 2027 – 17 Dec 2027** | Addis Ababa | Classroom / 10d | **$6,000 USD / KES 220,000** |
| **6 Dec 2027 – 17 Dec 2027** | Singapore | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **6 Dec 2027 – 17 Dec 2027** | Istanbul | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **6 Dec 2027 – 17 Dec 2027** | Bangkok | Classroom / 10d | **$10,000 USD / KES 220,000** |
| **6 Dec 2027 – 17 Dec 2027** | Accra | Classroom / 10d | **$8,000 USD / KES 220,000** |

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

## Course Curriculum & Modules

**Advanced Heat Transfer Applications Training Course**

**Introduction**

**Advanced Heat Transfer Applications has become a critical discipline in modern industrial operations, supporting energy efficiency, process optimization, sustainability, digital transformation, thermal management, decarbonization, advanced manufacturing, Industry 4.0 integration, predictive maintenance, and operational excellence. Industries such as oil and gas, petrochemicals, power generation, renewable energy, pharmaceuticals, food processing, aerospace, electronics, and manufacturing depend heavily on effective heat transfer systems to improve productivity, reduce operating costs, and enhance equipment reliability. Understanding advanced heat transfer mechanisms enables professionals to optimize thermal performance while meeting increasingly stringent environmental and energy regulations.**

**Advanced Heat Transfer Applications Training Course provides participants with cutting-edge knowledge and practical skills in conduction, convection, radiation, heat exchanger optimization, computational thermal analysis and industrial heat management systems to enable them maximize operational performance and cost. Through real-world case studies, simulation exercises, and industry best practices, participants will gain the expertise needed to solve complex thermal engineering challenges and maximize operational performance across diverse industrial applications.**

**Course Duration**

**10 Days**

### Course Objectives

Upon successful completion of this course, participants will be able to:

- Master advanced principles of industrial heat transfer systems.
- Optimize thermal efficiency using data-driven engineering approaches.
- Apply advanced conduction, convection, and radiation models.
- Design high-performance heat exchanger networks.
- Implement energy-efficient thermal management strategies.
- Analyze heat transfer using CFD and simulation tools.
- Improve process integration and thermal system optimization.
- Develop waste heat recovery and energy conservation solutions.
- Evaluate advanced insulation technologies and materials.
- Apply digital twin and Industry 4.0 concepts in thermal systems.
- Troubleshoot heat transfer equipment performance issues.
- Enhance sustainability through carbon reduction initiatives.
- Implement predictive maintenance for thermal equipment reliability.

Target Audience

- Process Engineers
- Mechanical Engineers
- Chemical Engineers
- Plant Operations Managers
- Energy Managers
- Maintenance Engineers
- Project Engineers
- Research and Development Professionals

Course Modules

### Module 1: Fundamentals of Advanced Heat Transfer

- Review of conduction, convection, and radiation
- Thermal energy balance principles
- Heat transfer coefficients
- Thermal resistance concepts
- Industrial applications overview
- Case Study: Thermal performance evaluation in a petrochemical processing unit.

### Module 2: Advanced Conduction Heat Transfer

- Multidimensional heat conduction

- Transient conduction analysis
- Thermal conductivity enhancement
- Composite wall analysis
- Numerical conduction modelling
- Case Study: Heat loss reduction in refinery furnace walls.

odule 3: Advanced Convection Heat Transfer

- Forced convection applications
- Natural convection systems
- Turbulent flow heat transfer
- Boundary layer optimization
- Convective enhancement techniques
- Case Study: Optimization of cooling systems in power plants.

### Module 4: Radiation Heat Transfer Applications

- Radiation fundamentals
- Surface emissivity optimization
- Radiative exchange calculations
- Furnace radiation systems
- Thermal radiation control
- Case Study: Improving thermal efficiency in industrial furnaces.

### Module 5: Heat Exchanger Design and Optimization

- Shell-and-tube exchangers
- Plate heat exchangers
- Compact heat exchangers
- Fouling mitigation strategies
- Performance monitoring techniques
- Case Study: Heat exchanger network optimization in a refinery.

### Module 6: Process Heat Integration

- Pinch analysis methodology
- Energy targeting techniques
- Utility optimization
- Process integration strategies
- Economic evaluation
- Case Study: Energy savings through pinch technology implementation.

### Module 7: Computational Heat Transfer Analysis

- CFD fundamentals
- Thermal simulation workflows
- Numerical methods
- Model validation techniques
- Industrial thermal analysis
- Case Study: CFD analysis of reactor cooling performance.

### Module 8: Thermal Energy Storage Systems

- Sensible heat storage
- Latent heat storage technologies
- Phase change materials
- Thermal battery systems
- Industrial applications
- Case Study: Thermal storage integration in renewable energy facilities.

### Module 9: Waste Heat Recovery Technologies

- Heat recovery systems
- Heat recovery steam generators
- Organic Rankine Cycle applications
- Energy recovery economics
- Sustainability benefits
- Case Study: Waste heat recovery in cement manufacturing.

### Module 10: Advanced Thermal Management Materials

- High-performance insulation materials
- Nano-enhanced thermal materials
- Thermal coatings
- Advanced composites
- Material selection criteria
- Case Study: Insulation upgrades for LNG processing facilities.

### Module 11: Heat Transfer in Process Industries

- Oil and gas applications
- Petrochemical processes
- Chemical reactor heat management
- Pharmaceutical thermal systems
- Food processing operations
- Case Study: Reactor temperature control optimization.

### Module 12: Digital Transformation in Heat Transfer

- Smart thermal monitoring
- IoT-enabled thermal systems
- Digital twin applications
- AI-based thermal analytics
- Real-time performance optimization
- Case Study: Digital twin deployment for heat exchanger performance monitoring.

### Module 13: Reliability and Predictive Maintenance

- Thermal equipment reliability
- Condition monitoring techniques
- Failure mode analysis
- Predictive maintenance strategies
- Asset integrity management
- Case Study: Predictive maintenance implementation in thermal processing equipment.

### Module 14: Sustainability and Energy Efficiency

- Carbon reduction initiatives
- Net-zero thermal strategies
- Energy benchmarking
- Environmental compliance
- Sustainable thermal operations
- Case Study: Industrial decarbonization through thermal system optimization.

### Module 15: Emerging Technologies and Future Trends

- Advanced thermal systems
- Heat pumps and electrification
- Hydrogen economy applications
- AI-enhanced thermal optimization
- Future industrial heat transfer innovations

- Case Study: Next-generation heat transfer technologies in smart manufacturing.

Register as a group from 3 participants for a Discount

Send us an email: info@datastatresearch.org or call +254724527104

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

## Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

## How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/advanced-heat-transfer-applications-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.